JVC

SERVICE MANUAL

42"PLASMA DISPLAY MONITOR

BASIC CHASSIS
P1

GD-V4200PCE
GD-V4200PCE-G

Since some details of the GD-V4200PZW/GD-V4200PZW-G service manual (No.51566, Sep. 1999) were changed, we are informing you of these changes and of the new descriptions.

1. OUTLINE OF CHANGES

- PDP PANEL CHANGE.
- TERMINAL P.W.B. (FX-6065A) DELETION.

2.DIFFERENCE OF PARTS LIST

CONTENTS / USING P.W. BOARD (P3-2) / PRINTED WIRING BOARD PARTS LIST (P3-7)

PARTS NO.		PARTS NAME	DESCRIPTION
GD-V4200PZW GD-V4200PZW-G	**GD-V4200PCE GD-V4200PCE-G**		
FX-1117A	**FX-1131A**	DIGITAL P.W.BOARD ASS'Y	
FX-6065A	---------------	TERMINAL P.W.BOARD ASS'Y	DELLITE

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No.51703
Mar. 2000

EXPLODED VIEW PARTS LIST (P3-3)

⚠	REF NO.	PARTS NO.		PARTS NAME	DESCRIPTION
		GD-V4200PZW GD-V4200PZW-G	**GD-V4200PCE** **GD-V4200PCE-G**		
⚠	2	QLE0004-001	**QLE0004-003**	PDP PANEL	
	11	LC20474-001A	**LC20598-001A**	TERMINAL PANEL	
⚠	14	LC20453-001A	**LC20453-005A**	ROLL R LABEL	GD-V4200PCE
	14	LC20453-002A	**LC20453-006A**	ROLL R LABEL	GD-V4200PCE-G
	23	LC31038-001A	**LC31038-003A**	FCC LABEL	GD-V4200PCE
	23	LC31038-002A	**LC31038-004A**	FCC LABEL	GD-V4200PCE-G
	35	FX-6065A	------------	TERMINAL P.W.BOARD ASS'Y	DELLITE
	39	FX-1117A	**FX-1131A**	SIGNAL P.W.BOARD ASS'Y	
	41	QYSBSF3012M	------------	TAPPING SCREW	×15

PACKING PARTS LIST (P3-16)

⚠	REF NO.	PARTS NO.		PARTS NAME	DESCRIPTION
		GD-V4200PZW GD-V4200PZW-G	**GD-V4200PCE** **GD-V4200PCE-G**		
	1	LC20255-001B	**LC20255-003A**	TOP CARTON	
⚠	15	LCT0318-001A	**LCT0783-001A**	INST BOOK	

PRINTED WIRING BOARD PARTS LIST

DIGITAL P.W.BOARD ASS'Y (P3-7)

⚠	SYMBOL NO.	PARTS NO.		PARTS NAME	DESCRIPTION
		FX-1117A	**FX-1131A**		
	R1505	NRSA63J-472X	--------------	MG R	DELLITE
	R1593-4	--------------	**NRSA63J-101X**	MG R	ADDITION
	Q1101	2SC2778/C/-X	**2SC2412K/QR/-X**	SI.TRANSISTOR	
	Q1104	2SC2778/C/-X	**2SC2412K/QR/-X**	SI.TRANSISTOR	
	Q1107	2SC2778/C/-X	**2SC2412K/QR/-X**	SI.TRANSISTOR	
	Q1111-13	2SC2778/C/-X	**2SC2412K/QR/-X**	SI.TRANSISTOR	
	Q1115	2SC2778/C/-X	**2SC2412K/QR/-X**	SI.TRANSISTOR	
	Q1117	2SC2778/C/-X	**2SC2412K/QR/-X**	SI.TRANSISTOR	
	IC1502	EPC1PC8-GDV4200	**EPC1PC8-4200PCE**	I.C.	SERVICE
	IC1601	MB90F553APF-P99	**MB90F553APF-P9A**	I.C.(MICRO-COMP)	SERVICE
	IC1602	AT24C32-GDV4200	**AT24C32-4200PCE**	I.C.(EP-ROM)	SERVICE

JVC
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GD-V4200PCE #0004
GD-V4200PCEG #0003
Printed in Japan
VP 0003
MS/MH

V30126

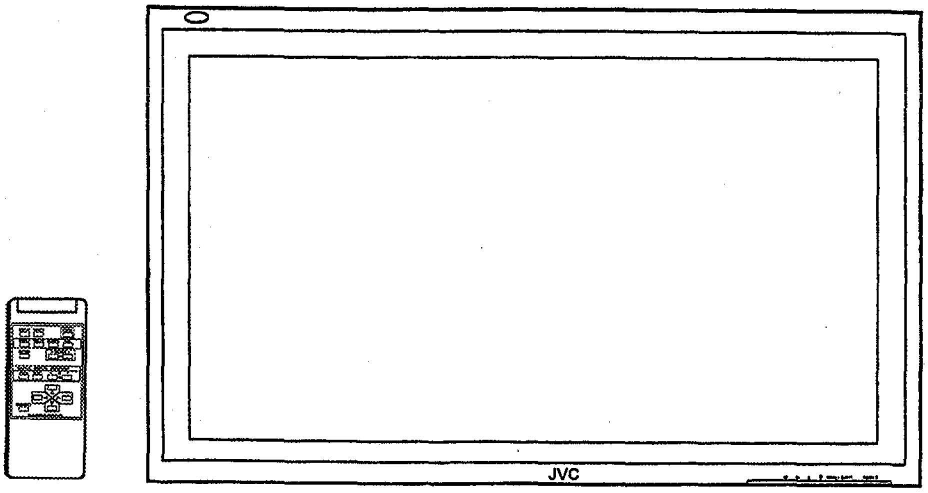
JVC

SERVICE MANUAL

42" PLASMA DISPLAY MONITOR

BASIC CHASSIS
P1

GD-V4200PZW
GD-V4200PZW-G



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No.51566
Sep. 1999

SPECIFICATIONS

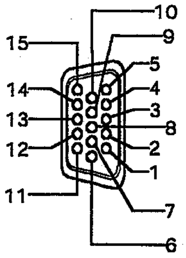
Item		Content
Dimension		103.5cm (40-3/4") × 64.0cm (25-1/4") ×8.9cm (3-5/8") (W×H×D)
Mass		36.0kg (79.2lbs)
Type		Plasma display
Compatible system		Video A,B input : NTSC, PAL, SECAM Component input : 480I, 576I, 480p, 720p,1080i
Power requirements		120V / 230VAC,50/60Hz
Power Consumption		390W(TYP)(10W in stand by mode)
Effective screen dimensions		Horizontal 92.1cm×Vertical 51.8cm×Diagonal 105.7cm
Nmber of pixele		Horizontal 853×Vertical 480
Pixel pitch		Horizontal 1.08mm× Vertical 1.08mm
Cell pitch		Horizontal 0.36mm× Vertical 1.08mm
Dispiay colours		16.77million colours (RGBeach 256 hues)
Contrast ratio		More than 500:1
Audio power output		3W+3W Two internal speakers (4×7cm oval, impedance of 8Ω)
Input/output terminals	**VIDEO A**	· Y/Cinput : Y/Cterminal×1、 Y: 1V(p-p)/75Ω C: 0.286V(p-p)/75Ω(NTSC) C: 0.3V(p-p)/75Ω(PAL/SECAM)
		· Video input : BNCterminal×1、1V(p-p)/75Ω
		· Video output : BNCterminal×1、1V(p-p)/75Ω
		· Audio input : Pin jack terminal×2(L/R)、500mVrms/22kΩ or over
	VIDEO B	· Y/Cinput : Y/Cterminal×1、 Y : 1V(p-p)/75Ω C : 0.286V(p-p)/75Ω(NTSC) C : 0.3V(p-p)/75Ω(PAL/SECAM)
		· Video input : BNCterminal×1、1V(p-p)/75Ω
		· Video output : Pin jack terminal×1、1V(p-p)/75Ω
		· Audio input : Pin jack terminal×2(L/R)、500mVrms/22kΩor over
	COMP.input	BNCterminal×3 Y : 1V(p-p)/75Ω PB/B-Y : 0.7V(p-p)/75Ω PR/R-Y : 0.7V(p-p)/75Ω
	RGBinput	· D-sub3line15-pin terminal×1 : Video signal : 0.7V(p-p)/75Ω : Sync signal : TTL level or0.3V(p-p)/75Ω
		· Audio input : Pin jack terminal×2(L/R)、500mVrms/22kΩor over
RS232C input		D-sub9-pin terminal×1
SPEAKER OUT terminal		Impedance 6Ω～16Ω
Scanning		Video mode Horizontal 15.625kHz(PAL/SECAM)、15.734KHz(NTSC) Vertical 50Hz(PAL/SECAM), 59.94KHz(NTSC) Component video mode See next page Analogue RGB mode Horizontal 15kHz～56kHz、Vertical50～75Hz
Environment		Temperature : 0～40°C Relative humidity : 35～85% (non-condensing)
Storage		Temperature : -20～50°C Relative humidity : 0～90%(non-condensing)
Accessories		Remote control unit×1(RM-C575) AA/R6-size dry cell battery×2(for operation check) Remote control cable×1 / Power cord(approx 2.5m)×3

Design and specification are subject to change without notice.

■Pin assignment (Specifications for terminals)

PC Input terminal

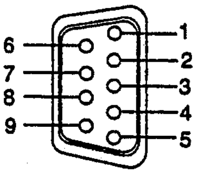
This terminal is connected to the moniter (Analogue RGB) out put terminal of a PC



Pin No	Signal name	Pin No	Signal name
1	Red	9	N/C
2	Green	1 0	GND
3	Blue	1 1	N/C
4	N/C	1 2	N/C
5	GND	1 3	H.SYNC
6	GND	1 4	V.SYNC
7	GND	1 5	N/C
8	GND	External	GND

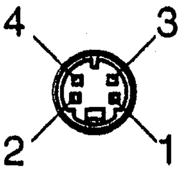
RS 232C terminal

This terminal is connected to the RS-232C terminal of a PC.



Pin No	Signal name
1	DCD (Data Carrier Detect)
2	RD (Receive Data)
3	TD (Transmit Data)
4	DTR (Data Terminal Ready)
5	GND (Ground)
6	DSR (Data Set Ready)
7	RTS (Request To Send)
8	CTS (Clear To Send)
9	RI (Ring Indication)

Y/C input terminal



Pin No	Signal name
1	GND (Y)
2	GND (C)
3	Y
4	C

- **Component Video mode**

Divide	Item	Input picture format							
		Standard	Frequency			Total pixel		Visible area pixel	
			Vert.	Hori.	Dot clock	Hori.	Vert.	Hori.	Vert.
			fVi	fHi	fci	Hi	Vi	Hai	Vai
			Hz	kHz	MHz	pixel/line	line/frame	pixel/line	line/frame
COMPONENT	480i	ITU-R BT601-4 (CCIR Rec.601)	59.94	15.734	13.50	858	525	720	485
	576i	ITU-R BT601-4 (CCIR Rec.601)	50.00	15.625	13.50	864	625	720	575
	480p	SMPTE 293M	59.94	31.468	27.00	858	525	720	483
	720p	SMPTE 296M	60.00	45.000	74.25	1650	750	1280	720
	1080i	SMPTE 274M	60.00	33.750	74.25	2200	562.5	1920	540
	1035i	BTA S-001A	60.00	33.750	74.25	2200	562.5	1920	517.5

SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

4. **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
   Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED(NEUTRAL) : (⏚) side GND and EARTH : (⊕) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
   If above note will not be kept, a fuse or any parts will be broken.

5. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).

6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

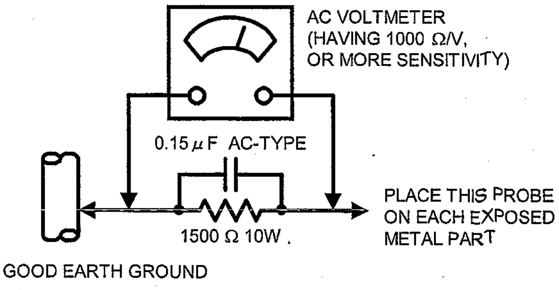
9. **Isolation Check**
   (Safety for Electrical Shock Hazard)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.
(. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

(2) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

- **Alternate Check Method**

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



PDP (PLASMADISPLAYPANEL) DESCRIPTION

- Although a PDP is made with highly advanced precision, this does not necessarily mean all of the cells operate correctly. The PDP inevitably includes cell that do not light or light constantly.
  If the specifications (PDP performance) are unclear at the time of shipment, an adequate description cannot be conveyed to the customer.
  In event of inquiries from customers regarding PDP performance, check the following specifications in order to offer a suitable reply.
- **Cell arrangement**
  The PDP is constructed of front and rear glass substrates provided with respective discharge electrodes. Between these, neon for discharging and xenon for generating ultraviolet rays are enclosed.
  One picture element (pixel) is composed of Red, Green and Blue (RGB) cells. The cell pitch is 0.36 mm horizontal (1.08 mm per pixel) by 1.08mm vertical.

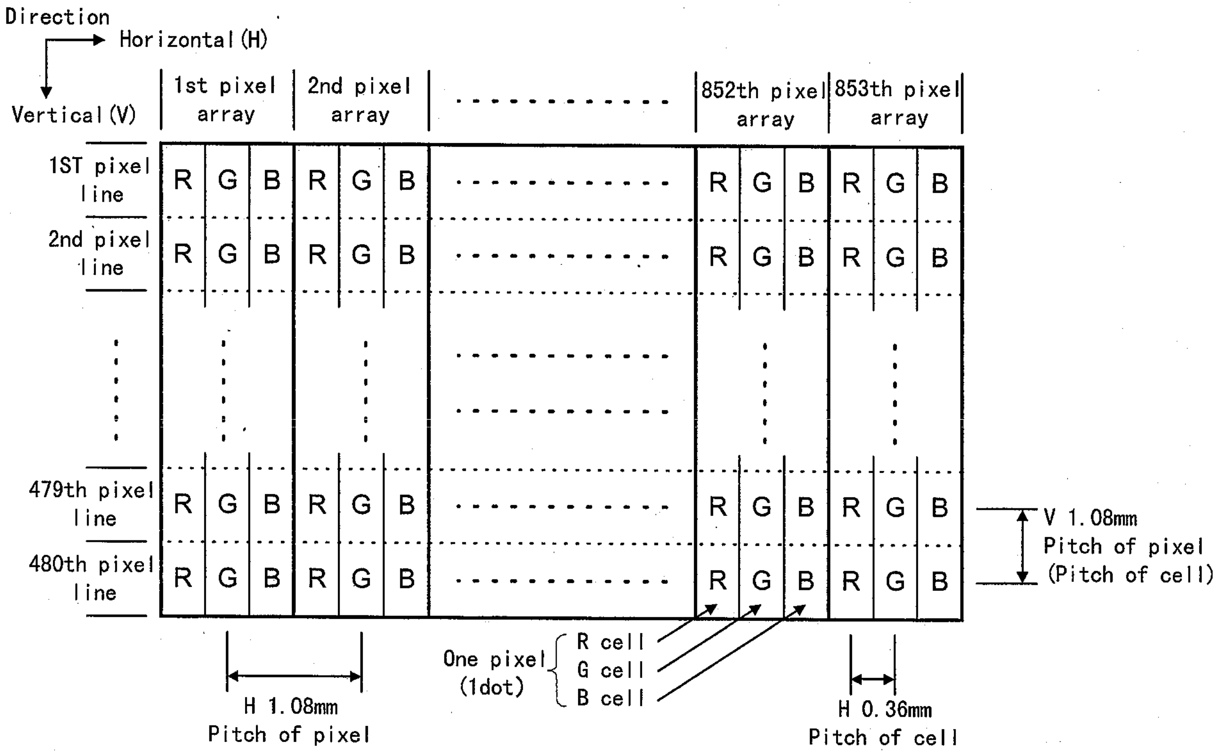

Direction
Horizontal (H)
Vertical (V)
1st pixel array
2nd pixel array
852th pixel array
853th pixel array
1ST pixel line
2nd pixel line
479th pixel line
480th pixel line
R
G
B
V 1.08mm
Pitch of pixel
(Pitch of cell)
H 1.08mm
Pitch of pixel
One pixel (1dot)
R cell
G cell
B cell
H 0.36mm
Pitch of cell

Fig. 1

As shown in Fig. 1, the cells are arranged for each R/G/B color. A pixel consists of each cell of R/G/B/ color. The size of a cell is 0.36mm horizontally and 1.08mm vertically.

- Pixel fault
  There are two pixel faults - bright fault and dark fault - that are respectively defined as follows.

(1) Bright fault
In this pixel fault, a cell that should not light originally is lighting or flashing on and off.
For checking this pixel fault, input ALL BLACK SCREEN and find out the cell that is lighting or flashing on and off.

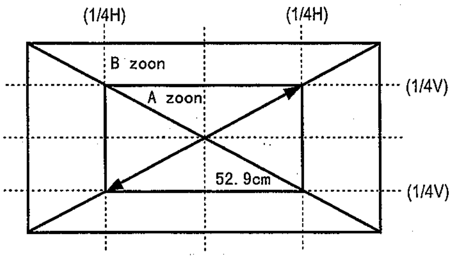
(2) Dark fault
In this pixel fault, a cell that should light originally is not lighting or not flashing on and off or lighting with the brightness twice as brighter as originally lighting.
For checking this pixel fault, input 100% of each RGB color and find out the cell that is not lighting or not flashing on and off or lighting with the brightness as brighter as originally lighting.

(3) Pixel fault

	Screen display	Criteria for number of faulted cell	Criteria for number of consecutive faulted cell
Bright fault	All black screen	A zone: less than 1 in each color B zone: less than 2 in each color	Less than2 consecutively
Dark fault	Red level 100% on entire screen	A zone: less than 2 in each color B zone: less than 6 in each color	Less than2 consecutively
	Green level 100% on entire screen		
	Blue level 100% on entire screen		

(Note) A-zone: Center portion (area enclosed by 1/4 vertically from the top and bottom and 1/4 horizontally from the right and left sides.)

B-zone: Other area



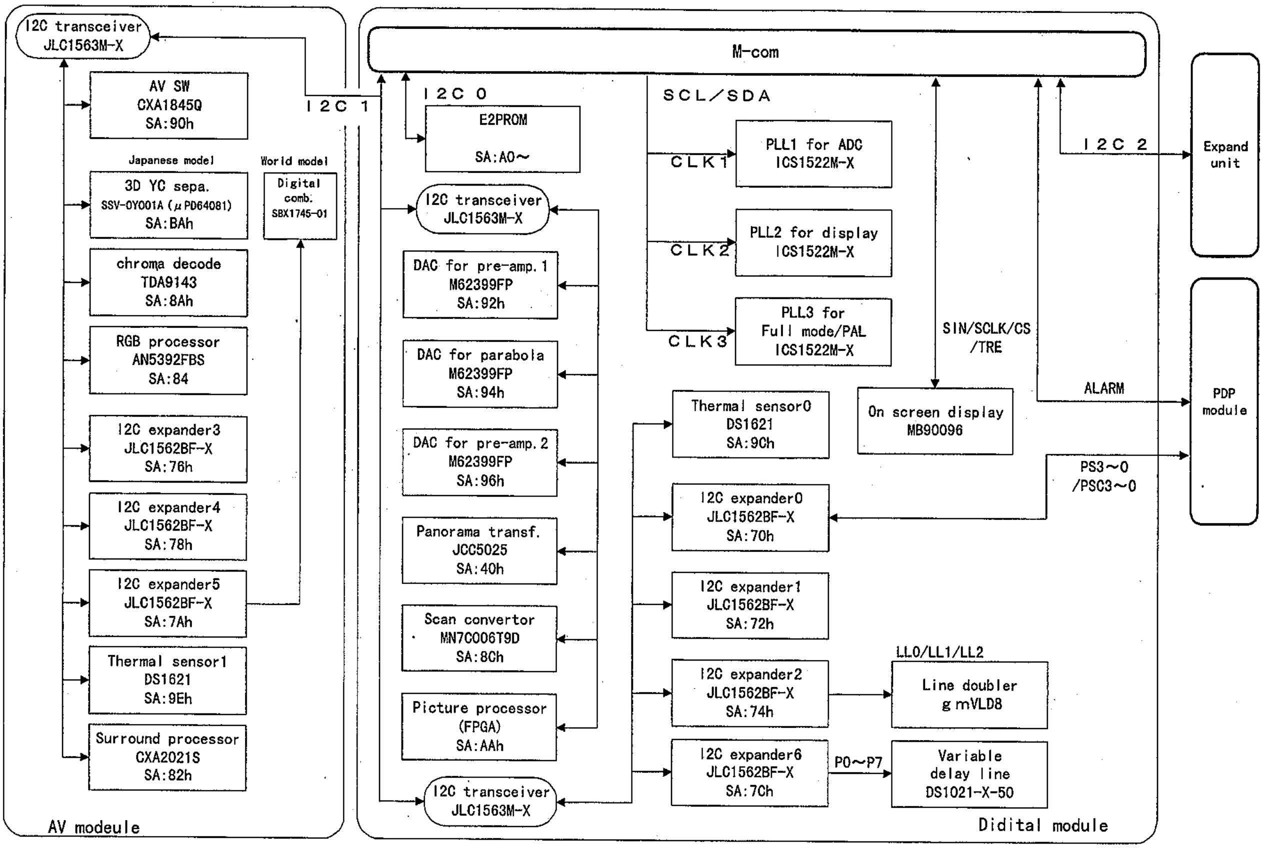
(Note) The consecutive pixel fault that are diagonically or intensively generated shall be interpreted as follows:

●○○
○●○
○○● → consecutive 3

●○
●● → consecutive 3

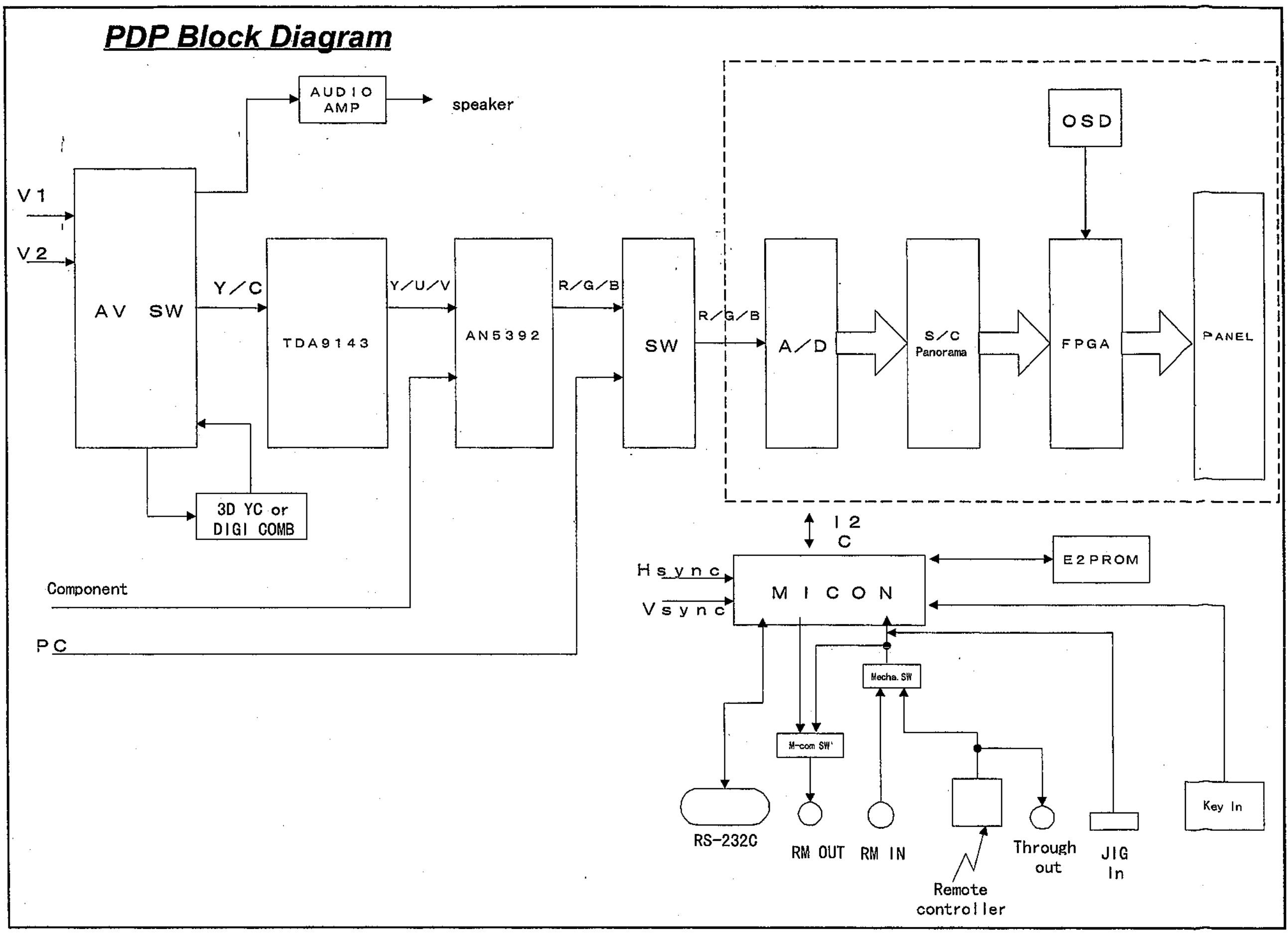
●●
●● → consecutive 4

Structure around M-com


I2C transceiver
JLC1563M-X
AV SW
CXA1845Q
SA:90h
I2C 1
Japanese model
3D YC sepa.
SSV-0Y001A (μPD64081)
SA:BAh
World model
Digital comb.
SBX1745-01
chroma decode
TDA9143
SA:8Ah
RGB processor
AN5392FBS
SA:84
I2C expander3
JLC1562BF-X
SA:76h
I2C expander4
JLC1562BF-X
SA:78h
I2C expander5
JLC1562BF-X
SA:7Ah
Thermal sensor1
DS1621
SA:9Eh
Surround processor
CXA2021S
SA:82h
AV modeule
M-com
I2C 0
E2PROM
SA:A0~
I2C transceiver
JLC1563M-X
DAC for pre-amp.1
M62399FP
SA:92h
DAC for parabola
M62399FP
SA:94h
DAC for pre-amp.2
M62399FP
SA:96h
Panorama transf.
JCC5025
SA:40h
Scan convertor
MN7C006T9D
SA:8Ch
Picture processor
(FPGA)
SA:AAh
I2C transceiver
JLC1563M-X
SCL/SDA
CLK1
PLL1 for ADC
ICS1522M-X
CLK2
PLL2 for display
ICS1522M-X
CLK3
PLL3 for
Full mode/PAL
ICS1522M-X
SIN/SCLK/CS
/TRE
I2C 2
Expand unit
ALARM
PDP module
Thermal sensor0
DS1621
SA:9Ch
On screen display
MB90096
PS3~0
/PSC3~0
I2C expander0
JLC1562BF-X
SA:70h
I2C expander1
JLC1562BF-X
SA:72h
I2C expander2
JLC1562BF-X
SA:74h
LL0/LL1/LL2
Line doubler
g mVLD8
I2C expander6
JLC1562BF-X
SA:7Ch
P0~P7
Variable
delay line
DS1021-X-50
Didital module

Structure around M-com

System block diagram


PDP Block Diagram
AUDIO AMP
speaker
V1
V2
AV SW
Y/C
TDA9143
Y/U/V
AN5392
R/G/B
SW
R/G/B
A/D
S/C Panorama
OSD
FPGA
PANEL
3D YC or DIGI COMB
Component
PC
I2C
Hsync
Vsync
MICON
E2PROM
Mecha. SW
M-com SW'
RS-232C
RM OUT
RM IN
Remote controller
Through out
JIG In
Key In

Self check

- Self check LEDs are located on the upper-left side of the set. LEDs are not screen from outside when they are turned off.
- There is no light out LED when detected abnormal condition. All 3 LEDs are lighting or flashing.

Detected items	LED			Priority
	upper	center	lower	
E2PROM communication error	○	☆	☆	1
Panel alarm	☆	○	○	2
High temperature	☆	○	☆	3
Fan stop	☆	☆	○	4
Flash write abnormality	☆	☆	☆	5

Note:
- displayed color: green
- flashing interval: 0.25s ON, 0.25s OFF
- LEDs indicate just 1 detected item that has priority even detected more than 2 items to avoid any confusion.
- All LEDs are lighting when Flash memory writing.

☆: Flashing LED / ○: Lighting LED

PRECAUTIONS FOR USE

1. Safety precaution for PDP operation

(1) Do not prevent the radiation of heat from back, top and flank sides of a PDP. (Refer to "5. Requirements for setting".)
Preventing the radiation of heat from each side causes high temperature within a PDP and may damage the inner circuit.

(2) Install a PDP in a place where is well ventilated.
Ambient temperature should be within a range of 0~40° C.

(3) Actions when the picture disappeared on the screen
When the temperature inside of a PDP became high due to stoppage of the inside fan, the detection circuit for suspension of fan operation starts to function and turns the power OFF automatically. In this case, unplug the power code immediately.
∗ Refer to "Seif check" portion for detail.

2. Retained-Image and burning

When the same pattern is displayed continuously for many hours, the burning of the screen is occurred in the same manner as for a CRT. This will shorten the service life of a PDP. In order to avoid the burning of the screen, turn the display off when not necessary. Also take such other measures as scrolling the screen and using a screen saver. In addition, periodically display the brightness reversal, the reversal to the complementary color or the insertion of animated image - all these will make the display on the screen uniform. Since the higher brightness may cause the burning, users are requested to use neutral colors as much as possible. Animated image will not cause the burning.

When the screen is switched after continuous display, the retained-image may be significant because the brightness of a certain portion becomes higher than that of other portions. This is caused by a phenomenon in which a surface electrical discharge of the lighted portion is more activated than the non-lighted portions, resulting in higher brightness.

3. Infrared rays

Because the near infrared rays (800~1000mm) radiate from the panel face, the neighboring infrared ray remote controllers, infrared communication systems, etc. may malfunction. In these cases, take a measure to prevent the trouble to be caused by direct rays (or reflected rays) from the screen by changing the direction of the screen face or keeping a safe distance between a PDP and other devices.

4. Matters that require attention when placing a plasma display upright

When a plasma display panel is placed upright, it is necessary to make the following setting.

- **[Caution]**

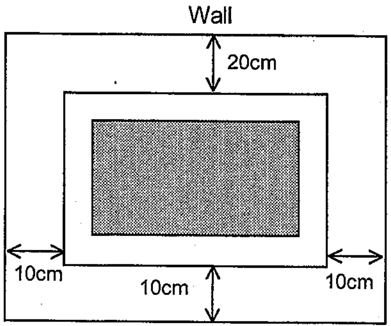
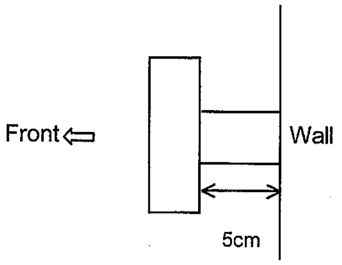
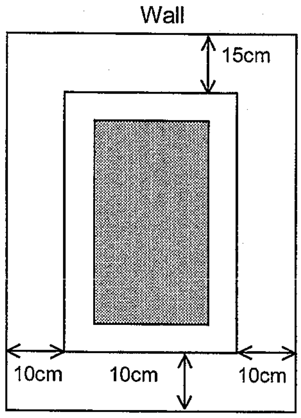
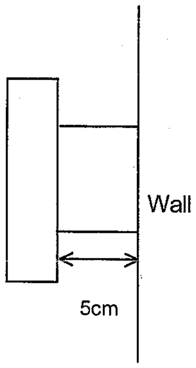
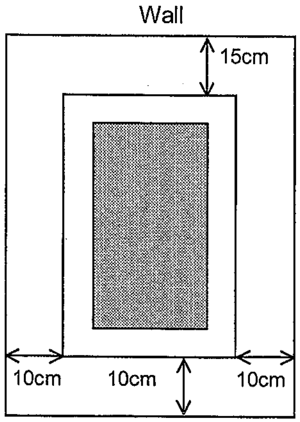
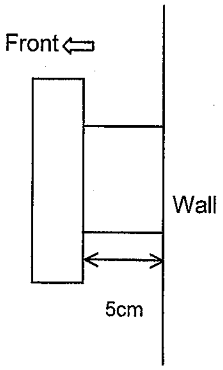
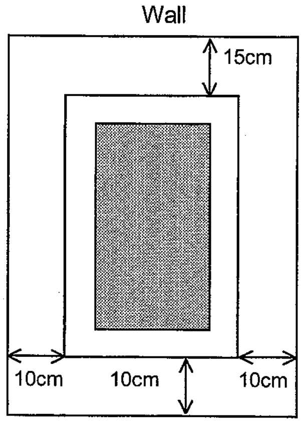
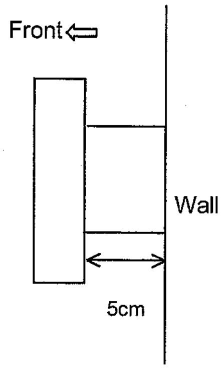
This setting changes the pre-set values at the shipment from the factory. Any fault in operation and intentional data change may result in permanent disappearance of the picture on the screen and/or damages of a PDP set. Therefore, extreme care must be taken when making this setting.

- **[Setting procedure]**

(3) Enter to SERVICE MODE.
(4) Select CPU BLOCK.
(5) Check the value of C(F04). Then set the new value to -15 from the pre-set value.
Example : When the pre-set value is 33, the new value should be 18 (33−15 = 18).
The C (F04) is a setting to set up the values for cooling fan. When a plasma display panel is placed upright, the new setting is necessary so as to increase cooling efficiency.

5. Requirements for setting

The following minimum space must be kept when a PDP is installed. (The recommended distance should be from the most projected portion when a PDP is inclined.)

Methods of Installation	Front	Flank	Remarks
① Hanging from a wall [Horigontil]	 Wall 20cm 10cm 10cm 10cm	 Front⇐ Wall 5cm	・An exclusive fixture (option) should be used. ・The structure and strength of the wall where a PDP is installed should be checked beforehand so as to install the PDP safely without any accident. ・It is necessary to set the fan rotation when install "Vertically". Refer to Precautions for use section 4.
② Hanging from a wall [Vertical]	 Wall 15cm 10cm 10cm 10cm		
③ Suspension from a ceiling	 Wall 15cm 10cm 10cm 10cm	 Front⇐ Wall 5cm	
④ Disktop	 Wall 15cm 10cm 10cm 10cm	 Front⇐ Wall 5cm	・A PDP should be installed on a rigid floor or stand. ・In order to prevent a PDP from turning over by an accident or earthquake, safety measures should be considered.

6. Optical filter (Front filter)

(1) Don't expose the optical filter directly to the sun for a long period of time.

Exposing directly to the sun for a long period of time may change the special property of the optical filter, resulting in a change of color.

(2) Don't wipe the optical filter with solvents such as benzene, thinner, etc.

Wiping the optical filter with solvents such as benzene, thinner, etc. may cause change in quality and peel off the coasting on the surface.

Lightly wipe the optical filter with a soft cloth with less fluffy (e.g. pure flannel).

Because the surface of the optical filter is fragile, don't scrub or hit it with a hard material.

7. Other precautions

(1) Brightness change in the screen

In order to save the power consumption, the power is controlled (with APS function) depending on the brightness of the screen. For this, the brightness may change after a short time when the picture of the screen is changed. However, this phenomenon is not a trouble.

■Precaution during transportation

- When a PDP set is delivered, the PDP body inside of the box will be subject to constant of gravitation under the rough handling (throwing, dropping, etc.) even though a rigid box is used.

  In such a case, the PDP may be damaged during transportation. In order to avoid an accident during transportation, care must be taken to select a reliable carrier. Once a reliable carrier is selected, advise them how to handle a PDP properly during transportation. In addition, a PDP should be insured for its physical damage before shipment.

  This product is fragile because glass is widely used. Thus the following requirements for transportation should be observed.

(1) Don't apply vibration and impact.

The glass of a PDP may be broken when the package is brought down on its side. When carrying the package, it must always be handled with two persons with due care not to apply vibration and impact on the package.

(2) Don't lay a PDP on its side.

A PDP should always be placed upright during both transportation and safekeeping. Don't lay it on its side. The panel of a PDI is very fragile to the impact in the horizontal direction.

When a car carries a PDI, load it on board the car in parallel with the moving direction of the car. Don't lay several PDPs one on top another.

During safekeeping, don't lay more than two PDPs one on top another even if they are kept upright.

■Precaution during changing of armor parts (rear cover, front panel and optical (front) filter)

- Extreme care must be exercised for a PDP when the armor parts are changed. To drop a PDP is out of question. Special attention should be paid not to apply pressure on the glass surface during the work. Don't touch the panel surface in any way.

  When changing the armor parts (rear cover, front panel and optical (front) filter), place the panel (PDP side) upside down in principle. At this time, a suitable mat must be used so as to prevent the front side from damaging. However, excessively soft material (e.g. blanket) should not be used for this purpose in any way. If a blanket is used, the surface of a PDP is pressurized by the blanket when placing the panel upside down. Under such a condition, the PDP may be broken during the work.

SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

Removing the Rear Cover

1. Remove screws marked **(a)** as shown in Fig. 1 at 19 locations.
2. Remove the rear cover.

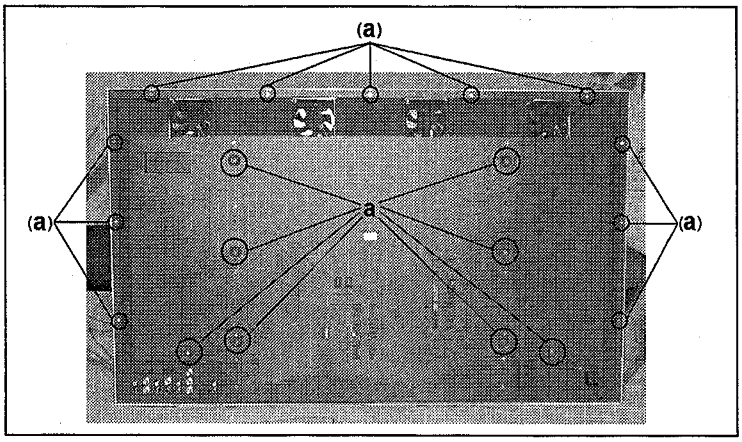


Fig. 1

Removing the Circuit Layer Flame

1. Remove screws marked **(b)** as shown in Fig. 2 at 16 locations.
2. Remove screws marked **(c)** as shown in Fig. 2 at 8 locations.
3. Remove screws marked **(d)** as shown in Fig. 2 at 4 locations.
4. Disconnect the 4 connectors.(CN101,CN102,CN103,X) & Disconnect the joint as shown in Fig. 2.

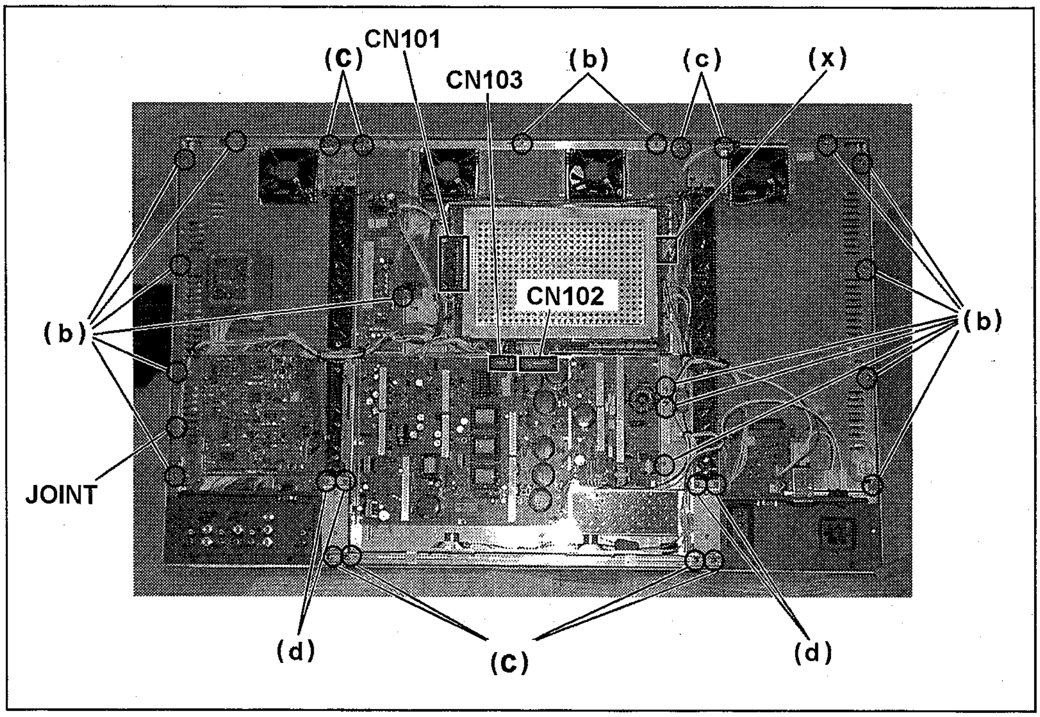


Fig. 2

5. Remove screws marked **(e)** as shown in Fig. 3 at 10 locations.

* Do not remove other screws.

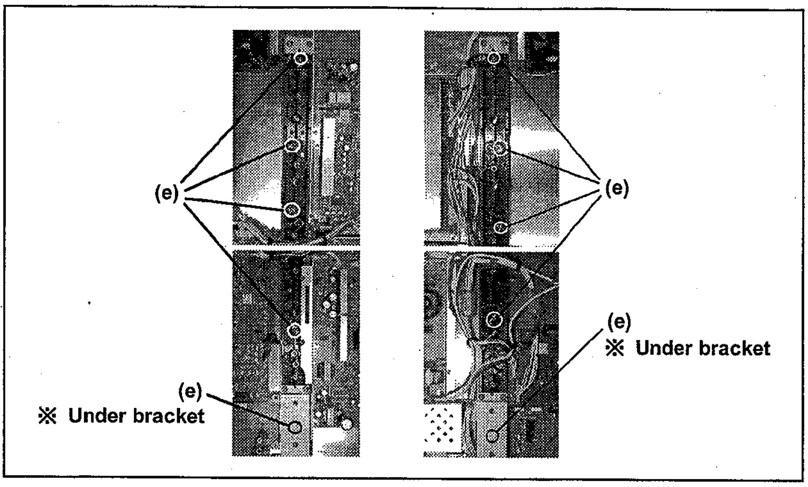

(e)
(e)
(e)
※ Under bracket
(e)
※ Under bracket

Fig.3

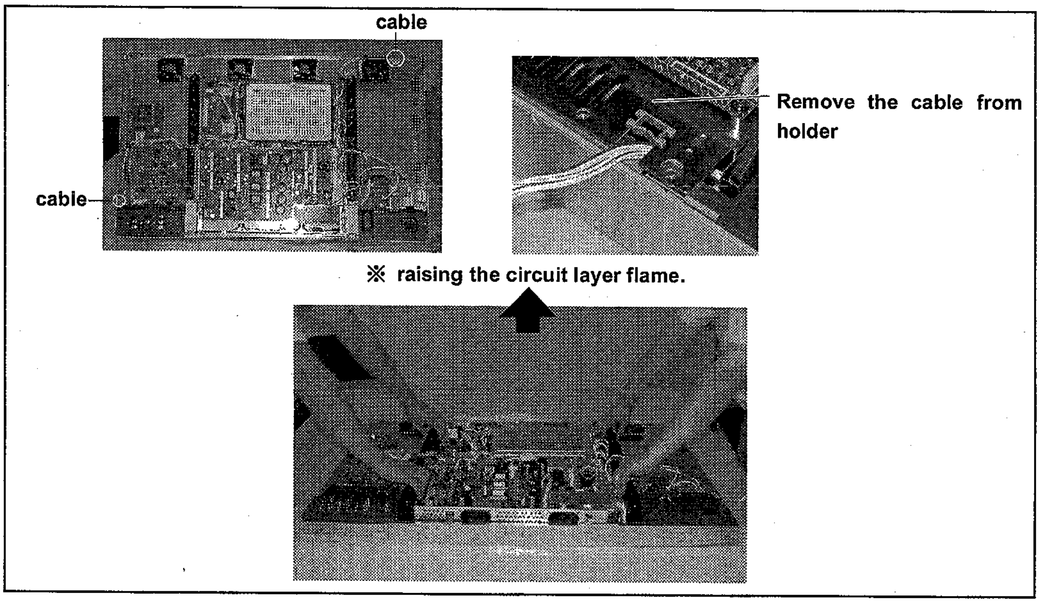

cable
cable
Remove the cable from holder
※ raising the circuit layer flame.

Fig.4

Removing the Plasma Display Panel

1. Remove screws marked **(f)** as shown in Fig. 5 at 4 locations.
2. Remove the Plasma Display Panel.

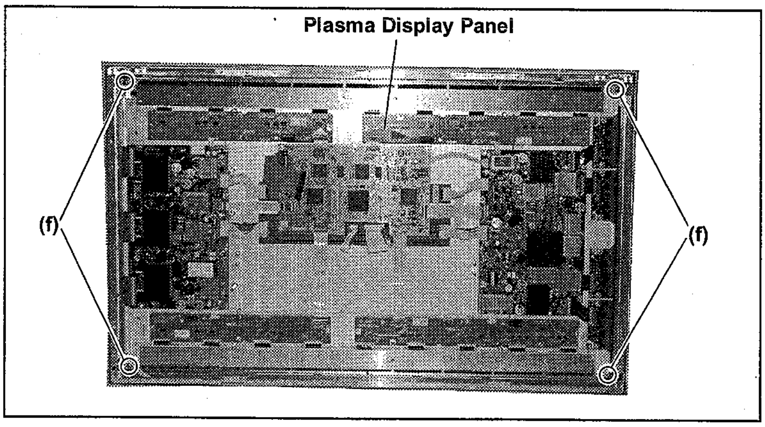

Plasma Display Panel
(f)
(f)

Fig.5

Removing the Front Panel and Optical Filter

∗ It is not necessary removing the Rear cover.

1. Remove screws marked **(g)** as shown in Fig.6 at 3 locations.
2. Remove the Front Panel.

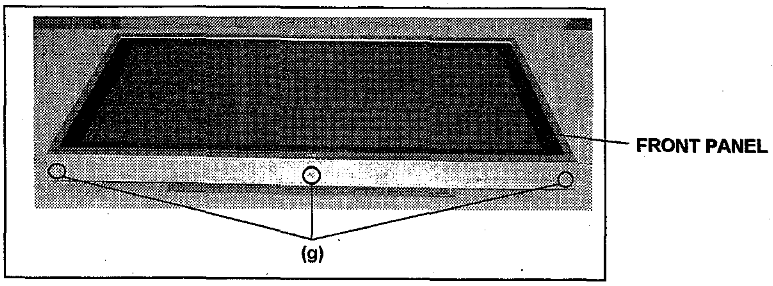

FRONT PANEL
(g)

Fig.6

3. Remove screws marked **(h)** as shown in Fig.7 at 10 locations.
4. Remove the Holders at 10 location.
5. Remove the Optical Filter.

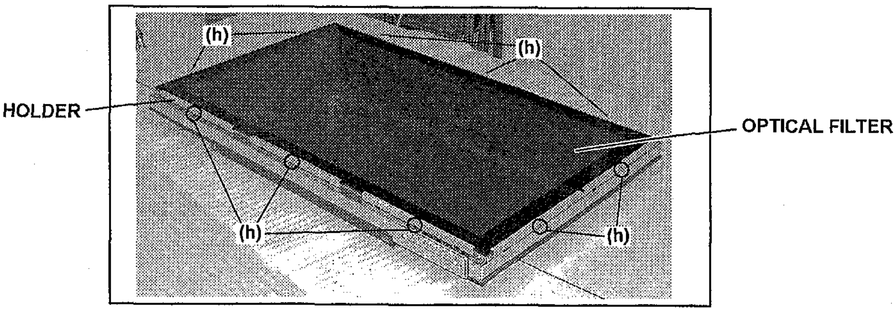

(h)
(h)
HOLDER
OPTICAL FILTER
(h)
(h)

Fig.7

Removing the Main Components

Removing the Fan Motors

* After removing the rear cover.

1. Remove screws marked (I) at 2 locations.
2. Remove the connectors.
3. Remove the fan motors.

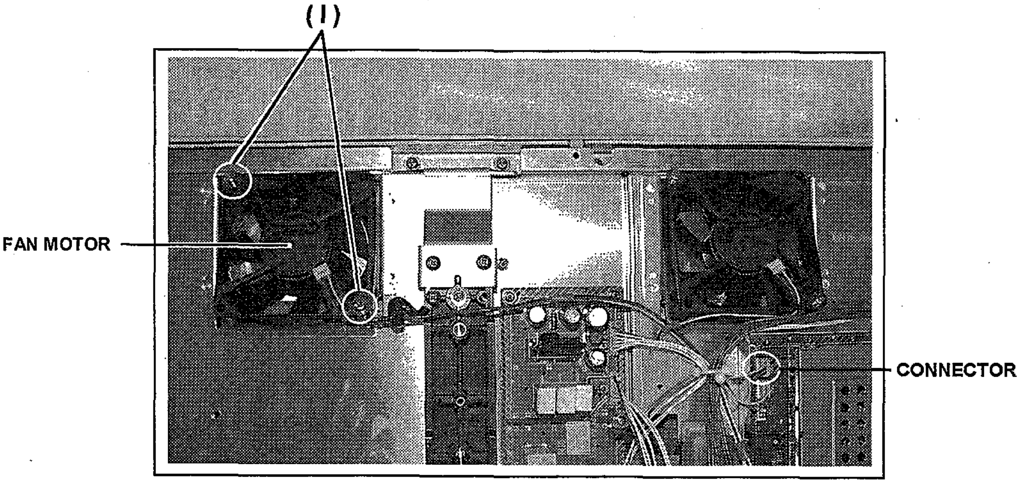

(I)
FAN MOTOR
CONNECTOR

Fig.8

Removing the speaker

* After removing the rear cover.

1. Remove screws marked (J) as shown in Fin.9 at 4 locations.
2. Slightly raise the power circuit block.
3. Remove screw marked (K) as shown in Fig.10 at 2 locations.
4. Remove the speakers.

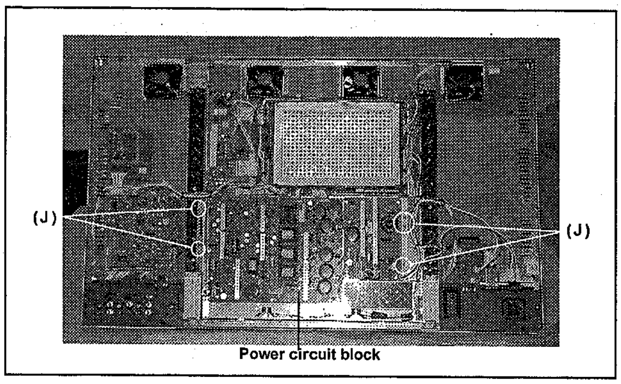

(J)
(J)
Power circuit block

Fig.9

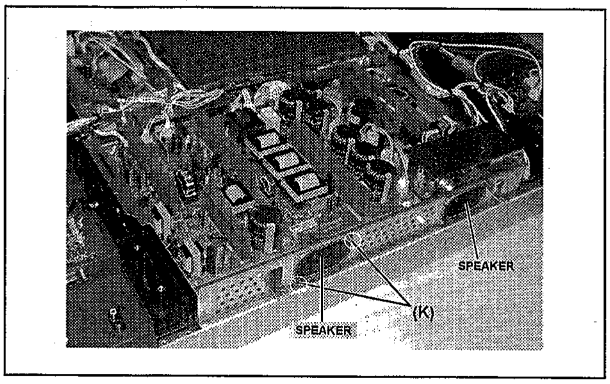

SPEAKER
(K)
SPEAKER

Fig.10

Removing the Input Terminal Board.

* After removing the rear cover.

1. Remove screws marked (L), (M) and (N) as shown in Fin.11 at 20 locations.
2. Remove screws marked (O) as shown in Fig.11 at 8 locations.
3. Remove the Input Terminal board.

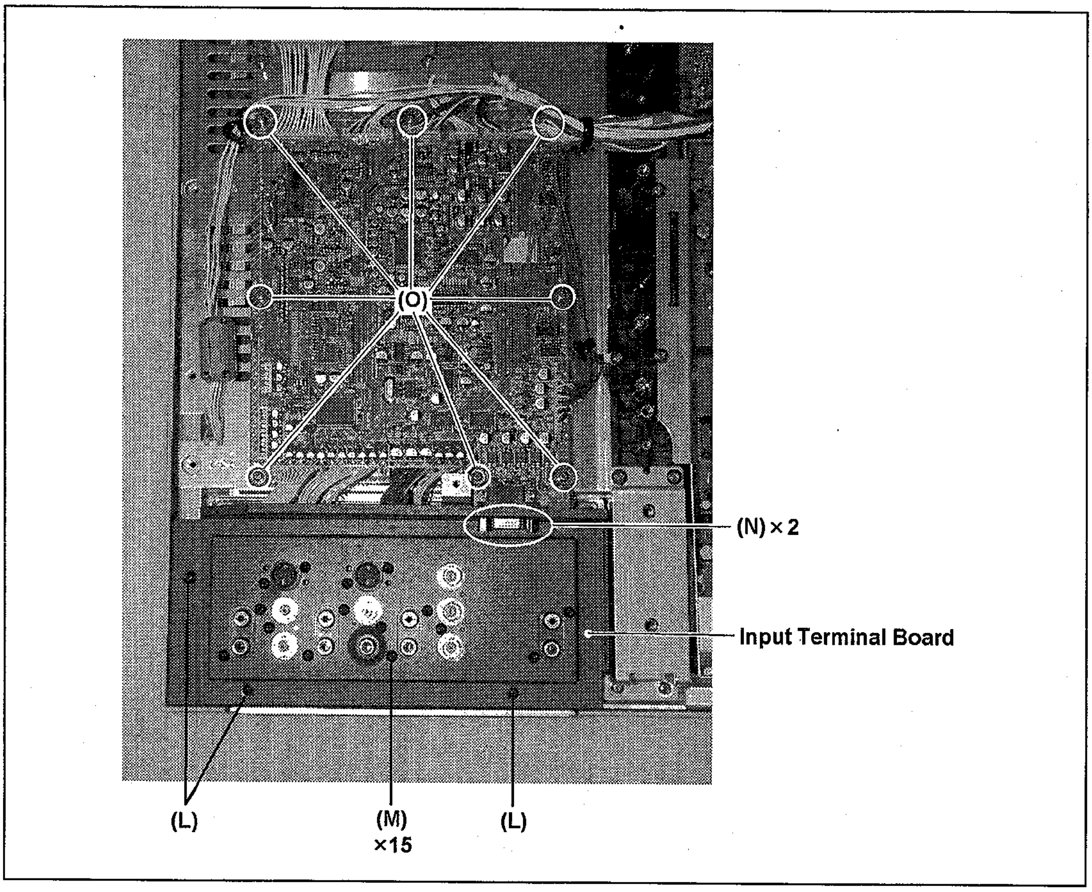

(O)
(N) × 2
Input Terminal Board
(L)
(M)
×15
(L)

Fig.11

- **Removing the Speaker Terminal Board.**

* After removing the rear cover.

1. Remove screws marked (P), (Q) , (R) & (S) as shown in Fin.12 at 11 locations.
2. Remove the speaker terminal board.

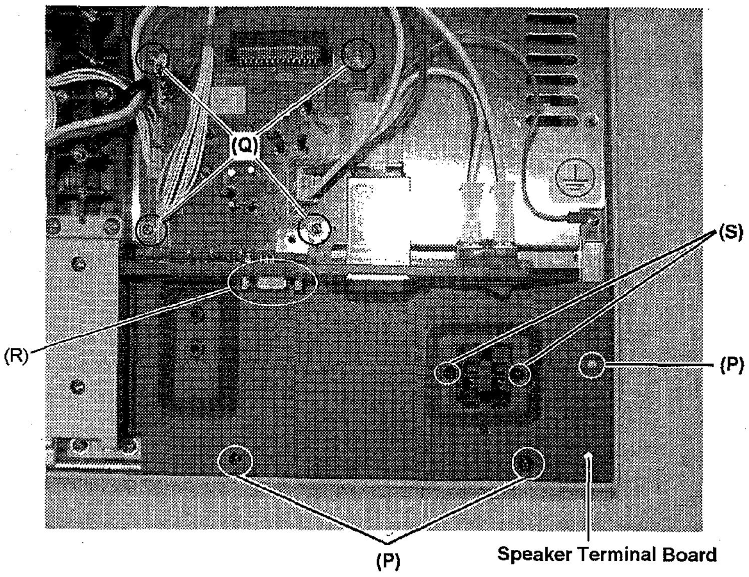

(Q)
(S)
(R)
(P)
(P)
Speaker Terminal Board

Fig.12

SERVICE ADJUSTMENTS

PRIOR TO STARTING ADJUSTMENT

1. Confirm the proper AC power voltage is being supplied.
2. Supply power to the set and measuring instruments and allow to warm up for at least 30 minutes.
3. Use care not disturb controls and switches not mentioned in the adjustments items.
4. Refer to adjustments setting and set user operated controls (BRIGHT, CONTRAST, PHASE, TINT, etc.) to the indicated positions.

How to enter the SERVICE MENU

The steps how to enter the SERVICE MENU are shown below. The steps are common to the TV set and remote controller.

(1) Press 「MENU」 KEY and 「 ↑ 」 KEY simultaneously.
The symbol ⚠ will be displayed on the screen center.

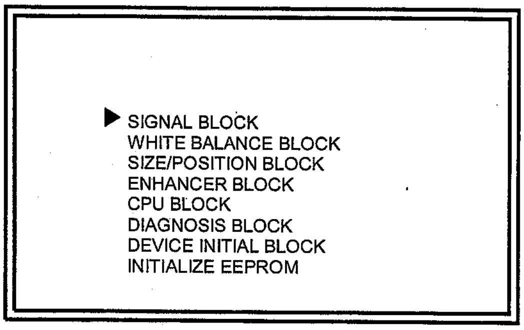
(2) While ⚠ is on the screen, press 「MENU」 KEY and 「VOL－」 KEY simultaneously.
The words <Please don't touch!> will be displayed on the screen center.

(3) While the words of <Please don't touch!> are on display, press 「 → 」 KEY
The SERVICE MENU will be displayed.

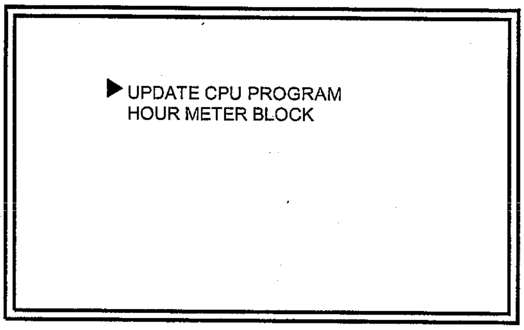
The first letters of the SERVICE MENU correspond to the following blocks, respectively.

S……………………SIGNAL BLOCK
W……………………WHITE BALANCE BLOCK
D……………………SIZE/POSITION BLOCK
E……………………ENHANCER BLOCK
C……………………CPU BLOCK

SERVICE MENU(1/2)



SERVICE MENU(2/2)



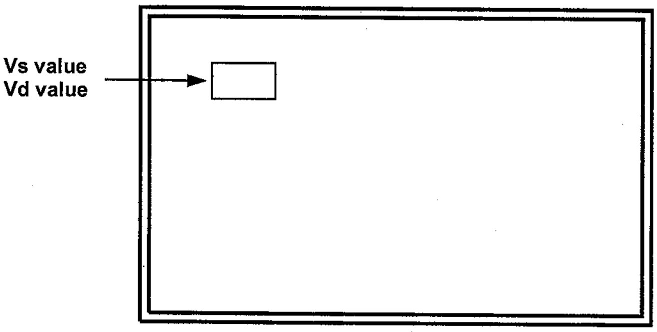
1. Power voltage

Preparation before Adjustments	Make sure that "NOSYNC" is displayed when the power is turned ON. It is necessary to wait for more than 5 minutes.
Measuring instruments	Digital Voltage meter

1. Connect the probe of the digital voltage meter to the test point (175V、GND) of the power PB ass'y.
2. Read the Vs value behind the panel and adjust the VR551 so that the power voltage falls within the value. (Tolerance: ±1.0V of the displayed value)
3. Connect the probe of the digital voltage meter to the test point (75V、GND) of the power PB ass'y.
4. Read the Vd value behind the panel and adjust the VR351 so that the power voltage falls within the value. (Tolerance: ±1.0V of the displayed value)

＊ Instead of the test points, the following connectors for TP can also be used.

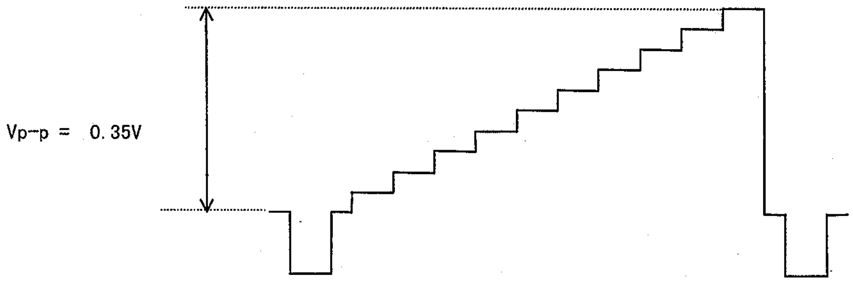
TP
1, **Vd**
2, **GND**
3, **N.C.**
4, **Vs**



2. Sub-contrast (NTSC)

Measuring Instruments	Oscilloscope / NTSC video signal generator
Preparation before Adjustments	
Adjustment Steps	Composite video signal 10 STEP pattern Chromatography signal should be turned OFF.

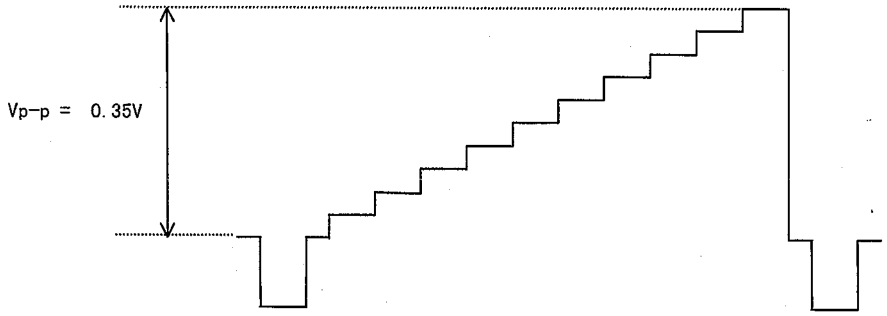
1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to the digital PCB TP-Y.
3. Adjust the <SERVICE MENU> signal block SA05 so that the amplitude between black signal portion and white 100% portion becomes0.35V.



3. Sub-contrast (480i)

Measuring Instruments	Oscilloscope / Video signal generator
Preparation before Adjustments	
Signals to be used	480i video signal 10 STEP pattern

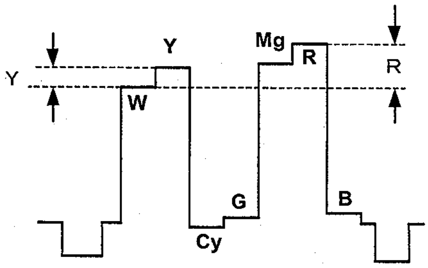
1. Input the Y signal to the Y terminal of COMPONENT.
2. Connect the probe of the oscilloscope to the digital PCB TP-Y.
3. Adjust the <SERVICE MENU> signal block SG05 so that the amplitude between black signal portion and white100% portion becomes 0.35V.



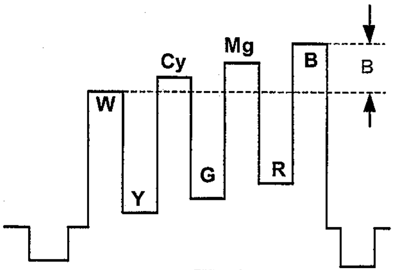
4. Chromatography phase (video input, NTSC)

Measuring instruments	Oscilloscope / NTSC video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	Composite video signal 75% color bar pattern

1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to AV PCB TP-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SA03(chromatography) and SA04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TP-AB.
5. Adjust the <SERVICE MENU>signal block SA07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP–AR



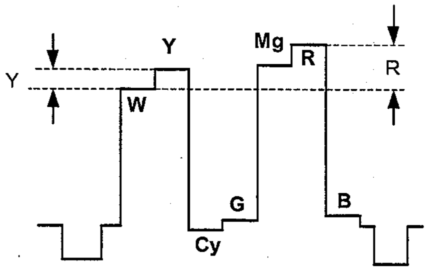
TP–AB

	Adjusting value (V)
R	0
Y	0
B	0

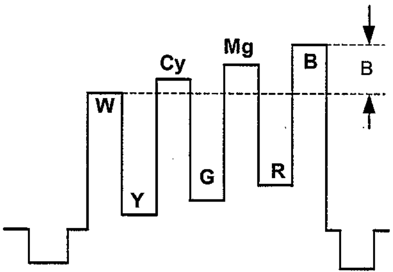
5. Chromatography phase (video input, PAL)

Measuring instruments	Oscilloscope / PAL video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	Composite video signal 75% color bar pattern

1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to AV PCB TP-AR.
3. Alternatively adjust the <SERVICE MENU> signal block SB03(chromatography) and SB04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AVB PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SB07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP–AR



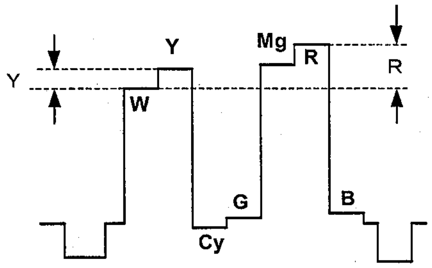
TP–AB

	Adjusting value (V)
R	0
Y	0
B	0

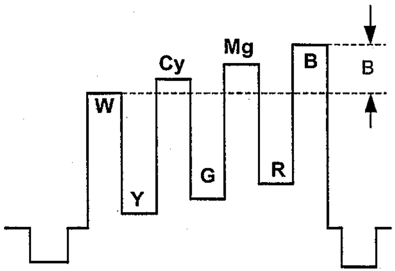
6. Chroma-graphy phase (video input, SECAM)

Measuring instruments	Oscilloscope / SECAM video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	Composite video signal - 75% color bar pattern

1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to AV PCB TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SC03(chromatography) and SC04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV-PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SC07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



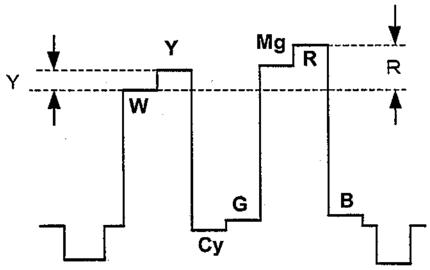
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

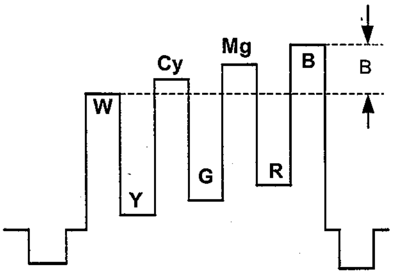
7. Chromatography phase (YC input, NTSC)

Measuring instruments	Oscilloscope / Video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	YC video signal 75% color bar pattern

1. Input the signal to Y/C terminal of VIDEO A.
2. Connect the probe of the oscilloscope to AV PCB TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SD03(chromatography) and SD04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV-PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SD07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



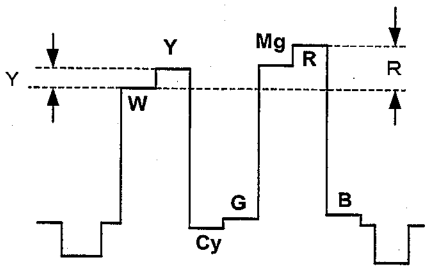
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

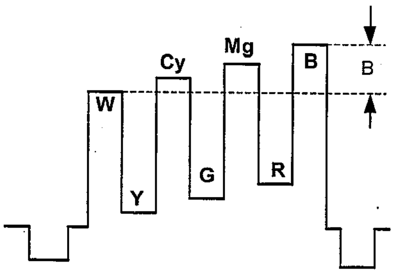
8. Chromatography phase (YC input, PAL)

Measuring instruments	Oscilloscope / PAL video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	YC video signal 75% color bar pattern

1. Input the signal to Y/C terminal of VIDEO A.
2. Connect the probe of the oscilloscope to AV PCB TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SE03(chromatography) and SE04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SE07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



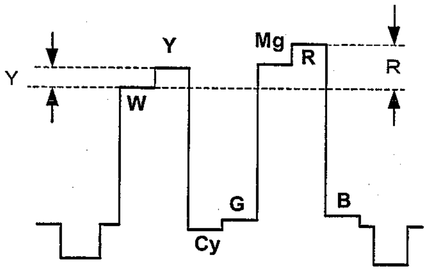
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

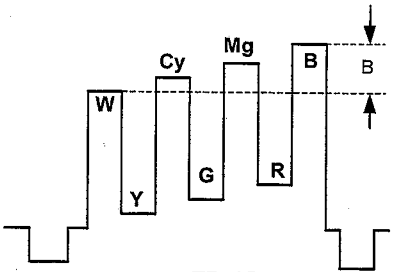
9. Chroma-graphy phase (YC input, SECAM)

Measuring instruments	Oscilloscope / Video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	YC video signal 5 % color bar pattern

1. Input the signal to Y/C terminal of VIDEP A.
2. Connect the probe of the oscilloscope to AV PCB TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SF03(chromatography) and SF04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SF07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



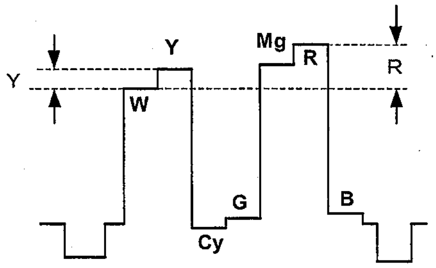
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

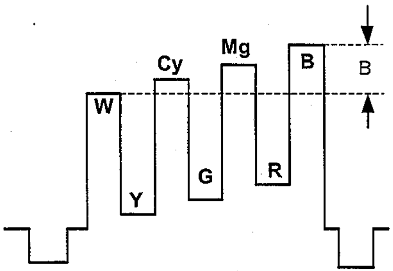
10. Chromatography phase (component input,480i)

Measuring instruments	Oscilloscope / Video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	480i video signal100% color bar pattern

1. Input the signal to COMPONENT terminal.
2. Connect the probe of the oscilloscope to AV PCB-TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SG03(chromatography) and SG04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SG07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



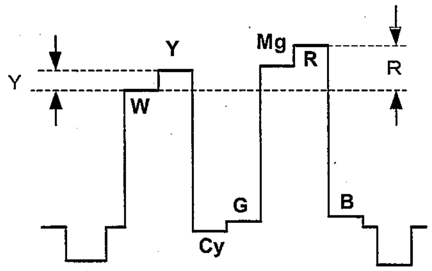
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

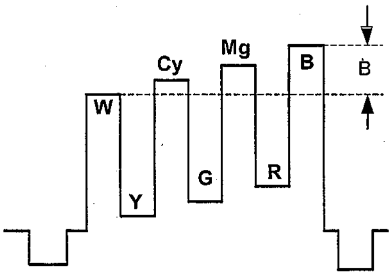
11. Chromatography phase (component input, 576i)

Measuring instruments	Oscilloscope / Video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	576i video signal 75% color bar pattern

1. Input the signal to COMPONENT terminal.
2. Connect the probe of the oscilloscope to AV PCB TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SH03(chromatography) and SH04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SH07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



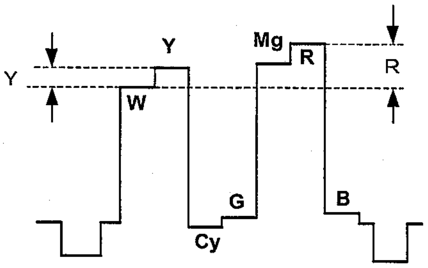
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

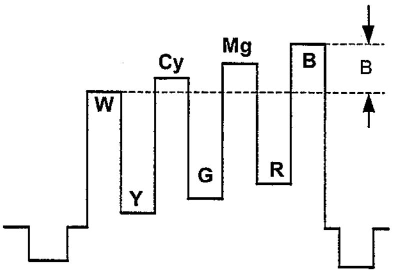
12. Chroma-graphy phase (component input, 480p)

Measuring instruments	Oscilloscope / Video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	480p video signal 100% color bar pattern

1. Input the signal to COMPONENT terminal.
2. Connect the probe of the oscilloscope to AV PCB TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SI03(chromatography) and SI04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SI07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP–AR



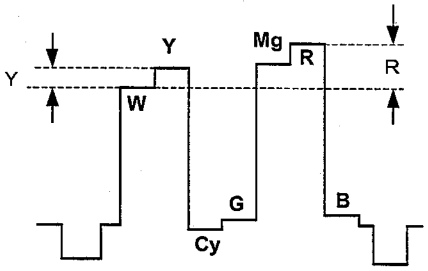
TP–AB

	Adjusting value (V)
R	0
Y	0
B	0

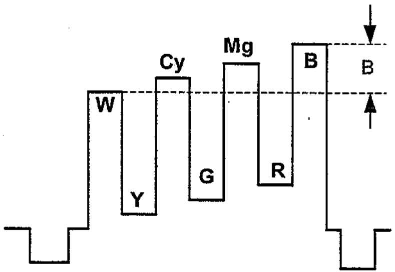
13. Chromatography phase (component input, 720p)

Measuring instruments	Oscilloscope / Video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	720p video signal 100% color bar pattern

1. Input the signal to COMPONENT terminal.
2. Connect the probe of the oscilloscope to AV PCB TR-AR.
3. Alternatively adjust the <SERVICE MENU>signal block SJ03(chromatography) and SJ04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TR-AB.
5. Adjust the <SERVICE MENU>signal block SJ07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP–AR



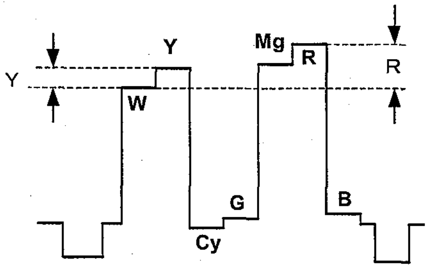
TP–AB

	Adjusting value (V)
R	0
Y	0
B	0

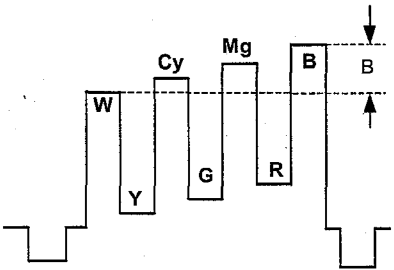
14. Chromatography phase (component input, 1080i)

Measuring instruments	Oscilloscope / Video signal generator
Preparation before adjustments	The <PICTURE ADJ.> of the <MAIN MENU> should be initialized.
Signals to be used	1080i video signal 100% color bar pattern

1. Input the signal to COMPONENT terminal.
2. Connect the probe of the oscilloscope to AV PCB TP-AB.
3. Alternatively adjust the <SERVICE MENU>signal block SK03(chromatography) and SK04(phase) so that the electric potential difference "R" and "Y"shown in the Fig. fall within the values indicated in the following table.
4. Connect the probe of the oscilloscope to AV PCB TP-AB.
5. Adjust the <SERVICE MENU>signal block SK07(B-Y gain) so that the electric potential difference "B" shown in the Fig. falls within the value indicated in the following table.



TP-AR



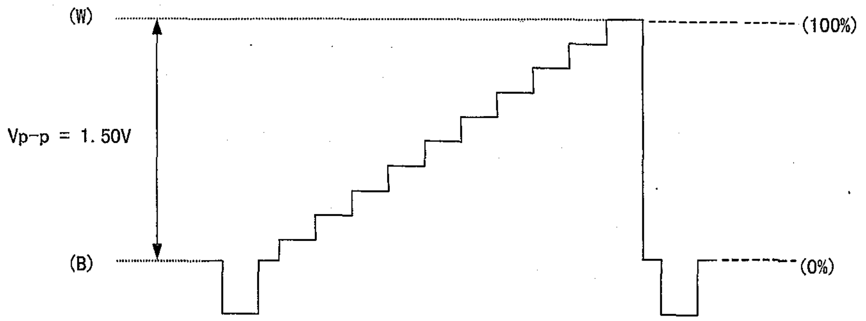
TP-AB

	Adjusting value (V)
R	0
Y	0
B	0

15. AD input level (NTSC)

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signal to be used	Composite video signal 10 STEP pattern Chromatography signal should be turned OFF.

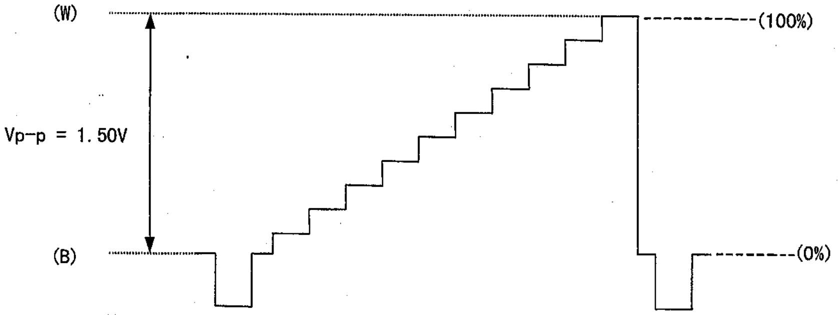
1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to the digital PCB TP-G.
3. Adjust the <SERVICE MENU>signal block SA01 (AD input level) so that the amplitude between black signal portion and white 100% portion becomes 1.50V.



16.AD input level (NTSC)

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signal to be used	480i video signal 10 STEP pattern

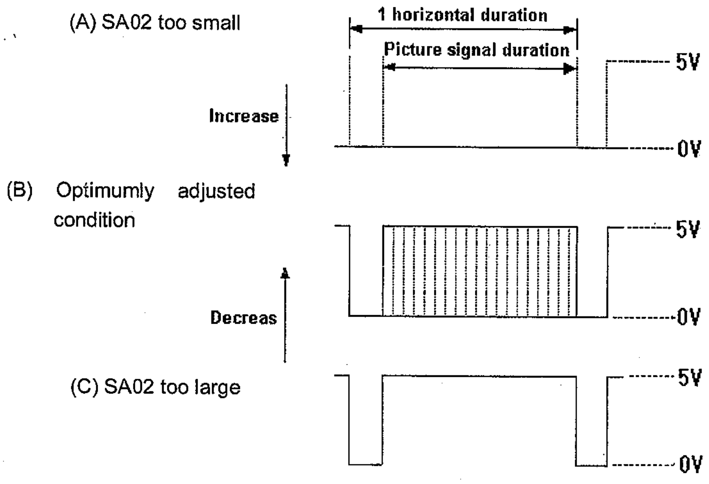
1. Input the Y signal to Y terminal of COMPONENT.
2. Connect the probe of the oscilloscope to the digital PCB TP-G.
3. Adjust the <SERVICE MENU>signal block SG1 (AD input level) so that the amplitude between black signal portion and white 100% portion becomes 1.50V.


(W)
Vp-p = 1.50V
(B)
(100%)
(0%)

17.AD input offset (NTSC)

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	Composite video signal - All black pattern

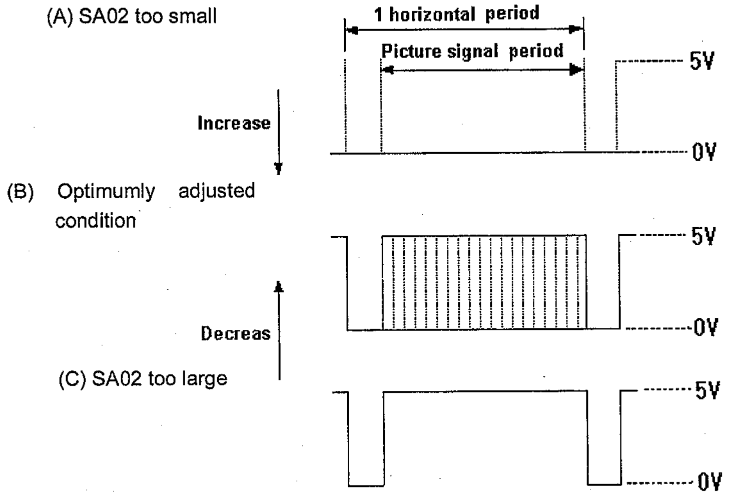
1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to the digital PCB TP-65 (IC205 ⑮ pin - the fifth bit from the bottom) .
3. Adjust the <SERVICE MENU>signal block SA02 (AD input offset) so that the brightness Low(0V) and High(5V) of the digital signal voltage, which corresponds to the picture signal duration, become the same. Because there are many kinds of optimumly adjusted condition indicated by (B) , increase SA02 gradually to get the point where the first optimum condition is obtained.


(A) SA02 too small
1 horizontal duration
Picture signal duration
5V
Increase
0V
(B) Optimumly adjusted condition
5V
Decreas
0V
(C) SA02 too large
5V
0V

18. AD input offset (480i)

Measuring Instruments	Oscilloscope / Video signal generator
Signals to be used	COMPONENT video signal - All black pattern

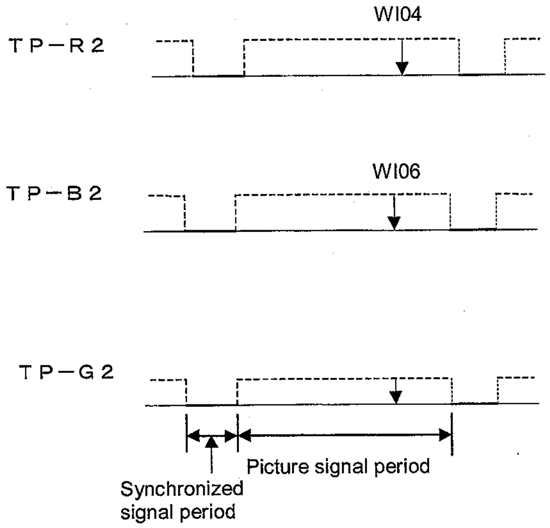
1. Input the Y signal to Y terminal of COMPONET.
2. Connect the probe of the oscilloscope to the digital PCB TP-G5 (IC205⑮ pin - the fifth bit from the bottom) .
3. Adjust the <SERVICE MENU>signal block SG02 (AD input offset) so that the brightness Low(0V) and High(5V) of the digital signal voltage, which corresponds to the picture signal period, become the same. There are many kinds of optimumly adjusted condition indicated by (B) . Obtain the optimum condition within 2~3 from the first value.


(A) SA02 too small
1 horizontal period
Picture signal period
5V
0V
Increase
(B) Optimumly adjusted condition
5V
0V
Decreas
(C) SA02 too large
5V
0V

19. Color difference offset

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	Composite video signal - all black pattern / Chroma-graphy signal should be turned OFF.

1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to the digital PCB TP-R2、TP-G2 and TP-B2.
3. Adjust the <SERVICE MENU>signal block WI04(R offset) / WI06 (B offset) so that the offset between the picture signal period and the synchronized signal period is eliminated. If WI04 / WI06 are decreased too much, an offset will be generated on TP-G2. Therefore, all three wave forms shall be adjusted properly so that there are no offsets.

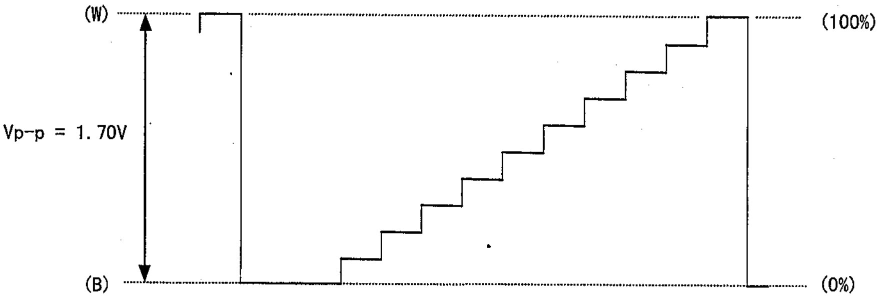

WI04
TP−R2
WI06
TP−B2
TP−G2
Picture signal period
Synchronized signal period

Etting of oscilloscope	
Horizontal	10 μ S/div
Vartical	0.1 V/div

20. Contrast (NTSC)

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	Composite video signal – 10 STEP pattern Chromatography signal should be turned OFF.

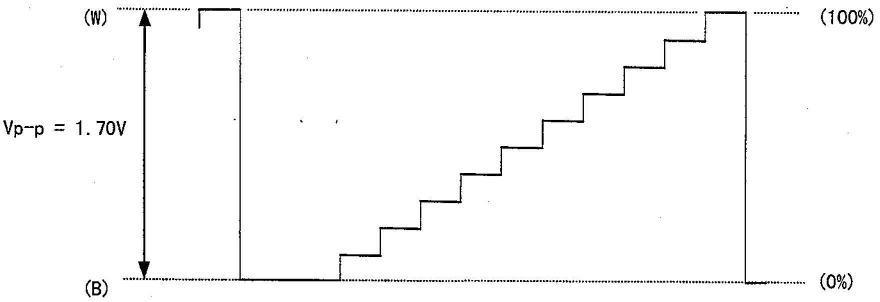
1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to the digital PCB TP-G2.
3. Adjust the <SERVICE MENU>signal block SA10 so that the electric potential difference shown in the Fig. Becomes1.70V.



21. Contrast (VGA)

Measuring Instruments	Oscilloscope / PC video signal generator
Signals to be used	VGA signal 640 x 480 dots (Horizontal frequency: 31.5KHz, Vertical frequency: 60Hz) Gray scale pattern

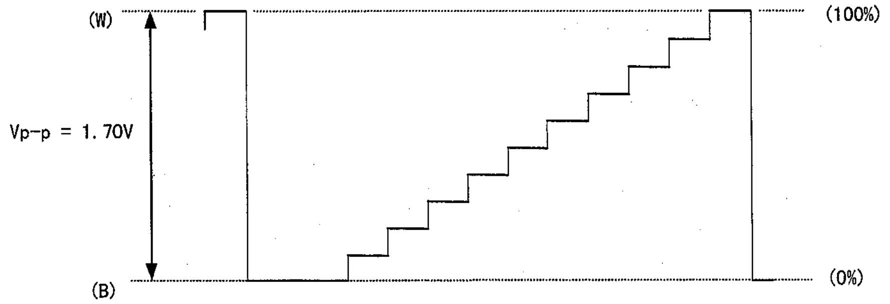
1. Input the signal to PC terminal.
2. Connect the probe of the oscilloscope to the digital PCB TP-G.
3. Adjust the <SERVICE MENU>signal block SL10 so that the electric potential difference shown in the Fig. Becomes1.70V.



22. Contrast (480i)

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	480i video signal - 10 STEP pattern

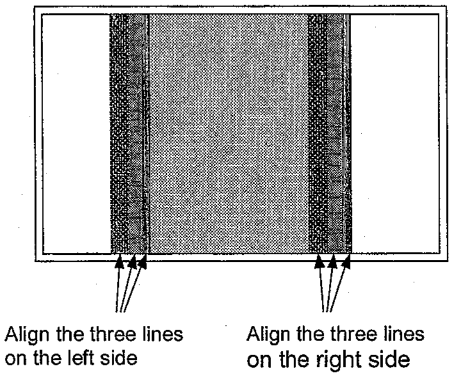
1. Input the Y signal to Y terminal of COMPONENT.
2. Connect the probe of the oscilloscope to the digital PCB TP-G2.
3. Adjust the <SERVICE MENU>signal block SG10 so that the electric potential difference shown in the Fig. Becomes1.70V.



23. RGB balance (NTSC)

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	Composite video signal - ramp pattern Chromatography signal should be turned OFF.

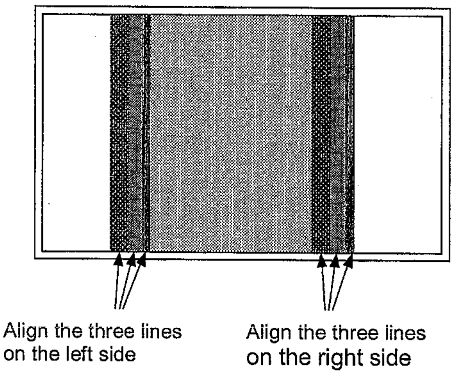
1. Input the signal to VIDEO A.
2. Change the <SERVICE MENU>CPU block CH01 from “2” to “2” to enter the test mode for R/G/B balance.
3. Adjust the <SERVICE MENU>WHITE BALANCE block WC04(R CUTOFF) and WC06(B CUTOFF) so that the three lines at the left side on the PDP panel are aligned. Don't move WC05(G CUTOFF).
4. Then adjust the <SERVICE MENU> WHITE BALANCE block WC01(R DRIVE) and WC03(B DRIVE) so that the three lines on the right side on the PDP panel are aligned. Don't move WC05(G DRIVE).
5. Because the lines aligned in the step 3. will shift as the result of the adjustment in the step 4. , repeat the steps 3.. and 4. so that the three lines on the left and right sides are aligned respectively.
6. Return the <SERVICE MENU> CH01 from “2” to “0” .


Align the three lines on the left side
Align the three lines on the right side

24.RGB balance (408i)

Measuring Instruments	Oscilloscope
Signals to be used	480i video signal - ramp pattern Chromatography signal should be turned OFF.

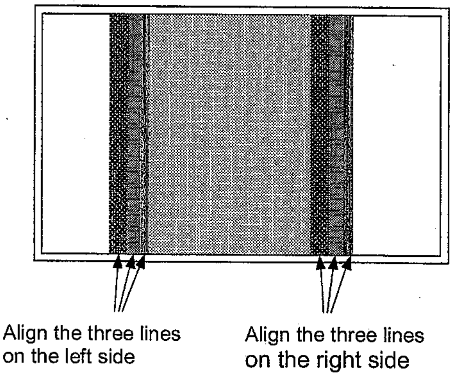
1. Input the signal to COMPONENT terminal.
2. Change the <SERVICE MENU>CPU block CH01 from "0" to "2" to enter the test mode for R/G/B balance.
3. Adjust the <SERVICE MENU>WHITE BALANCE block WE04(R CUTOFF) and WE06(B CUTOFF) so that the three lines at the left side on the PDP panel are aligned. Don't move WE05(G CUTTOFF).
4. Then adjust the <SERVICE MENU> WHITE BALANCE block WE01(R DEIVE) and WE03(B DEIVE) so that the three lines on the right side on the PDP panel are aligned. Don't move WE02(G DRIVE).
5. Because the lines aligned in.the step 3. will shift as the result of the adjustment in the step 4. repeat the steps 3. and 4. so that the three lines on the left and right sides are aligned respectively.
6. Return the <SERVICE MENU> CH01 from "2" to "0" .


Align the three lines on the left side
Align the three lines on the right side

25. RGB balance (VGA)

Measuring Instruments	Oscilloscope PC video signal generator
Signals to be used	VGA signal 640×480 dots (Horizontal frequency: 31.5KHz, Vertical frequency: 60Hz) ramp pattern

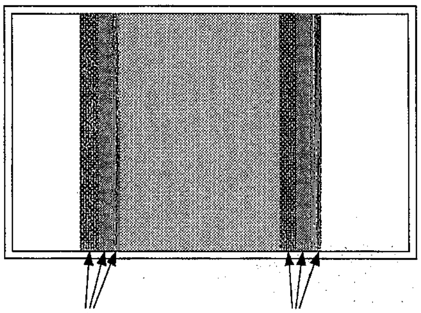
1. Input the signal to PC terminal.
2. Change the <SERVICE MENU>CPU block CH01 from "0" to "2" to enter the test mode for RGB balance.
3. Adjust the <SERVICE MENU>WHITE BALANCE block WA04(R CUTOFF) and WA06(B CUTOFF) so that the three lines at the left side on the PDP panel are aligned. Don't move WA05(G CUTTOFF).
4. Then adjust the <SERVICE MENU> WHITE BALANCE block WA01(R DRIVE) and WA03(B DRIVE) so that the three lines on the right side on the PDP panel are aligned. Don't move WA02(G DRIVE).
5. Because the lines aligned in the step 3. will shift as the result of the adjustment in the step 4., repeat the steps 3. and 4. so that the three lines on the left and right sides are aligned respectively.
6. Return the <SERVICE MENU> CH01 from "2" to "0" .


Align the three lines on the left side
Align the three lines on the right side

26.RGB balance (1080i)

Measuring Instruments	Oscilloscope / Video signal generator
Signals to be used	1080i video signal - ramp pattern

1. Input the signal to COMPONENT terminal.
2. Change the <SERVICE MENU>CPU block CH01 from "0" to "2" to enter the test mode for R/G/B balance。
3. Adjust the <SERVICE MENU>WHITE BALANCE block WG04(R CUTOFF) and WG06(B CUTOFF) so that the three lines at the left side on the PDP panel are aligned. Don't move WG05(G CUTOFF).
4. Then adjust the <SERVICE MENU> WHITE BALANCE block WG01(R DRIVE) and WG03(B DRIVE) so that the three lines on the right side on the PDP panel are aligned. Don't move WG02(G DRIVE).
5. Because the lines aligned in the step 3. will shift as the result of the adjustment in the step 4. repeat the steps 3. and 4. so that the three lines on the left and right sides are aligned respectively.
6. Return the <SERVICE MENU> CPU block CH01 from "2" to "0" .



Align the three lines on the left side

Align the three lines on the right side

27. White balance (NTSC)

Measuring Instruments	Video signal generator / Color temperature measuring device
Preparation before Adjustments	Wait for more than 20 minutes. If the power is turned off by unpluging the AC, start the adjustment 5 minutes after turning the power on again. The <PICTURE ADJ.> of the <MAIN MENU> should be initialized., This adjustment shall be done after completing the adjustment of RGB balance.
Signal to be used	NTSC video signal - window pattern Set the burst "ON".

1. Input the signal to VIDEO A.
2. Select HIGH in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
3. Adjust the <SERVICE MENU>WHITE BALANCE block WC07(R DRIVE) and WC08(G DRIVE) so that the color temperature become the HIGH adjustment point as shown below. Leave WC09(B DRIVE) at "255".
4. In case where adjustments cannot be done with step 3. temporarily return WC07(R DRIVE) and WC08(G DRIVE) to "255" and fix WC08(G DRIVE) at "255". Then adjust WC07(R DRIVE) and WC09(B DRIVE) again.
5. Select LOW in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
6. Adjust the <SERVICE MENU> WD08(G DRIVE) and WD09(B DRIVE) so that the color temperature is at the Low adjustment point as shown below. Don't move WD07(R DRIVE).
7. In case where adjustments cannot be done with step 6. temporarily return WD08(R DRIVE) and WD09(G DRIVE) to "255" and fix WD08(G DRIVE) at "255". Then adjust WD07(R DRIVE) and WD09(B DRIVE) again.

COLOR TEMP.	COLOR TEMP. ADJUSTING POINT
HIGH (EQUIVALENT TO D93)	x = 0.283 y = 0.297
LOW (EQUIVALENT TO D65)	x = 0.313 y = 0.329

28. White balance (480i)

Measuring Instruments	Video signal generator / Color temperature measuring device
Preparation before Adjustments	Wait for more than 20 minutes. If the power is turned off by unpluging the AC, start the adjustment 5 minutes after turning the power on again. The <PICTURE ADJ.> of the <MAIN MENU> should be initialized. This adjustment shall be done after completing the adjustment of RGB balance. This adjustment shall be done after completing the adjustment of NTSC white balance.
Signal to be used	480i video signal - window pattern

1. Input the signal to COMPONENT terminal.
2. Select HIGH in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
3. Adjust the <SERVICE MENU> WHITE BALANCE block WE07(R DRIVE), WE08(G DRIVE) and WE09(G DRIVE) so that the color temperature become the HIGH adjustment point as shown below. At this time, the adjustment is made after fixing the color, which was fixed at NTSC white balance HIGH, to "0".
4. In case where adjustments cannot be done by fixing BLUE to "0" in step 3. fix GREEN to "0". In case where adjustments cannot be done by fixing GREEN to "0" in step 3. fix RED to "0".
5. Select LOW in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
6. Adjust the <SERVICE MENU> WF08(G DRIVE) and WF09(B DRIVE) so that the color temperature is at the Low adjustment point as shown below. At this time, the adjustment is made after fixing the color, which was fixed at NTSC white balance HIGH, to "0"
7. In case where adjustments cannot be done by fixing RED to "0" in step 6. fix GREEN to "0". In case where adjustments cannot be done by fixing GREEN to "0" in step 3. fix BLUE to "0".

COLOR TEMP.	COLOR TEMP. ADJUSTING POINT
HIGH (EQUIVALENT TO D93)	x = 0.283 y = 0.297
LOW (EQUIVALENT TO D65)	x = 0.313 y = 0.329

29. White balance (VGA)

Measuring Instruments	PC video signal generator / Color temperature measuring device
Preparation before Adjustments	Wait for more than 20 minutes. If the power is turned off by unpluging the AC, start the adjustment 5 minutes after turning the power on again. The <PICTURE ADJ.> of the <MAIN MENU> should be initialized. This adjustment shall be done after completing the adjustment of RGB balance.
Signal to be used	VGA video signal 640×480 dots (Horizontal frequency: 31.5KHz, Vertical frequency: 60Hz) Window pattern

1. Input the signal to PC terminal.
2. Select HIGH in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
3. Adjust the <SERVICE MENU> WHITE BALANCE block WA07(R DRIVE) and WA08(G DRIVE) so that the color temperature become the HIGH adjustment point as shown below. Don't move WA09(B DRIVE).
4. In case where adjustments cannot be done with step 3. temporarily return WA07(R DRIVE) and WA08(G DRIVE) to "255" and fix WA08(G DRIVE) at "255". Then adjust WA07(R DRIVE) and WA09(B DRIVE) again.
5. Select LOW in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
6. Adjust the <SERVICE MENU> WB08(G DRIVE) and WB09(B DRIVE) so that the color temperature is at the Low adjustment point as shown below. Don't move WB07(R DRIVE).
7. In case where adjustments cannot be done with step 6., temporarily return WB08(R DRIVE) and WB09(G DRIVE) to "255" and fix WB08(G DRIVE) at "255". Then adjust WB07(R DRIVE) and WB09(B DRIVE) again.

COLOR TEMP.	COLOR TEMP. ADJUSTING POINT
HIGH (EQUIVALENT TO D93)	x = 0.283 y = 0.297
LOW (EQUIVALENT TO D65)	x = 0.313 y = 0.329

30. White balance (1080i)

Measuring Instruments	Video signal generator / Color temperature measuring device (Color temperature meter)
Preparation before Adjustments	Wait for more than 20 minutes. If the power is turned off by unplugging the AC, start the adjustment 5 minutes after turning the power on again. The <PICTURE ADJ.> of the <MAIN MENU> should be initialized. This adjustment shall be done after completing the adjustment of RGB balance.
Signal to be used	1080i video signal - window pattern

1. Input the signal to COMPONENT terminal.
2. Select HIGH in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
3. Adjust the <SERVICE MENU> WHITE BALANCE block WG07(R DRIVE) and WG08(G DRIVE) so that the color temperature become the HIGH adjustment point as shown below. At this time, the adjustment is made after fixing the color, which was fixed at VGA white balance HIGH, to "0".
4. In case where adjustments cannot be done by fixing BLUE to "0" in step 3, fix GREEN to "0". In case where adjustments cannot be done by fixing GREEN to "0" in step 3, fix RED to "0".
5. Select LOW in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
6. Adjust the <SERVICE MENU> WH08(G DRIVE) and WH09(B DRIVE) so that the color temperature is at the LOW adjustment point as shown below. At this time, the adjustment is made after fixing the color, which was fixed at VGA white balance LOW, to "0".
7. In case where adjustments cannot be done by fixing RED to "0" in step 6, fix GREEN to "0". In case where adjustments cannot be done by fixing GREEN to "0" in step 6, fix BLUE to "0".

COLOR TEMP.	COLOR TEMP. ADJUSTING POINT
HIGH (EQUIVALENT TO D93)	x = 0.283 y = 0.297
LOW (EQUIVALENT TO D65)	x = 0.313 y = 0.329

31. Bright (NTSC)

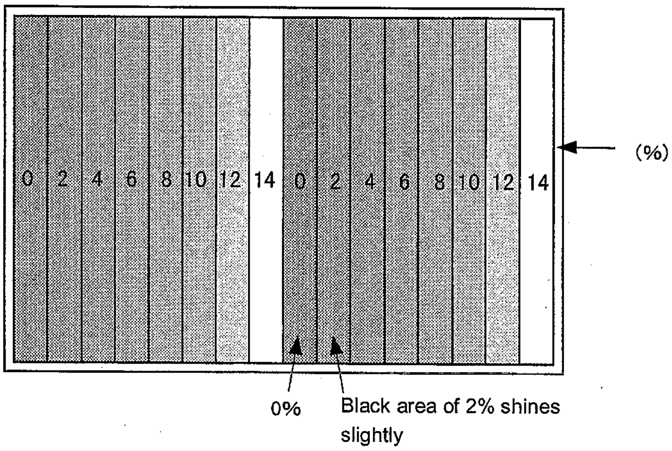
Measuring Instruments	Video signal generator
Preparation before Adjustments	Adjustments of contrast and white balance shall be completed beforehand. The <PICTURE ADJ.> of the <MAIN MENU> shall be initialized.
Signals to be used	Video signal NTSC – Gray scale pattern

1. Input the signal to VIDEO A.
2. Adjust the <SERVICE MENU>signal block SA11 so that the black area of 0% shines slightly. (Care must be taken not to make the panel screen with the state of "black embossment".)

32. Bright (VGA)

Measuring Instruments	PC video signal generator
Preparation before Adjustments	Adjustments of contrast and white balance shall be completed beforehand. The <PICTURE ADJ.> of the <MAIN MENU> shall be initialized.
Signals to be used	• VGA video signal 640 × 480 dots (Horizontal frequency: 31.5KHz, Vertical frequency: 60Hz) Gray scale pattern (2% STEP)

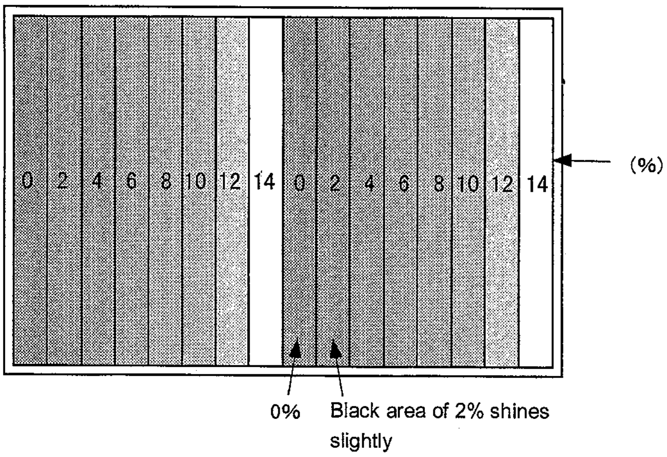
1. Input the signal to PC terminal.
2. Adjust the <SERVICE MENU>signal block SL02 so that the black area of 2% shines slightly and the black area of 0% does not shine with the brightness more than the pre-discharge brightness on the panel screen. (Care must be taken not to make the panel screen with the state of "black embossment".)



33. Bright (480i)

Measuring Instruments	Video signal generator
Preparation before Adjustments	Adjustments of contrast and white balance shall be completed beforehand. The <PICTURE ADJ.> of the <MAIN MENU> shall be initialized.
Signals to be used	480i video signal - Gray scale pattern (2% STEP)

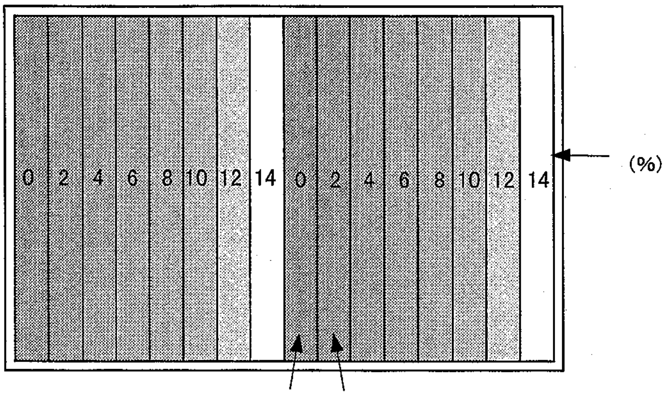
1. Input the signal to COMPONENT terminal.
2. Adjust the <SERVICE MENU>signal block SG11 so that the black area of 2% shines slightly and the black area of 0% does not shine with the brightness more than the pre-discharge brightness on the panel screen.
(Care must be taken not to make the panel screen with the state of "black embossment".)



34. Bright (480p)

Measuring Instruments	Video signal generator
Preparation before Adjustments	Adjustments of contrast and white balance shall be completed beforehand. The <PICTURE ADJ.> of the <MAIN MENU> shall be initialized.
Signals to be used	480p video signal - Gray scale pattern (2% STEP)

1. Input the signal to COMPONENT terminal.
2. Adjust the <SERVICE MENU>signal block SI11 so that the black area of 2% shines slightly and the black area of 0% does not shine with the brightness more than the pre-discharge brightness on the panel screen.
   (Care must be taken not to make the panel screen with the state of "black embossment".)

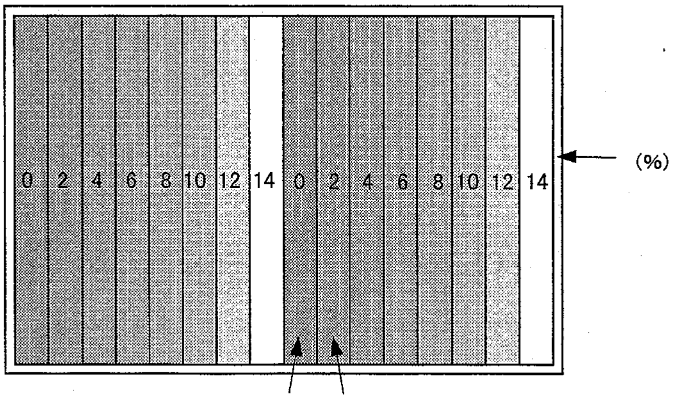


0% Black area of 2% shines slightly

35. Bright (720p)

Measuring Instruments	Video signal generator
Preparation before Adjustments	Adjustments of contrast and white balance shall be completed beforehand. The <PICTURE ADJ.> of the <MAIN MENU> shall be initialized.
Signals to be used	720p video signal - Gray scale pattern (2% STEP)

1. Input the signal to COMPONENT terminal.
2. Adjust the <SERVICE MENU>signal block SJ11 so that the black area of 2% shines slightly and the black area of 0% does not shine with the brightness more than the pre-discharge brightness on the panel screen.
   (Care must be taken not to make the panel screen with the state of "black embossment".)

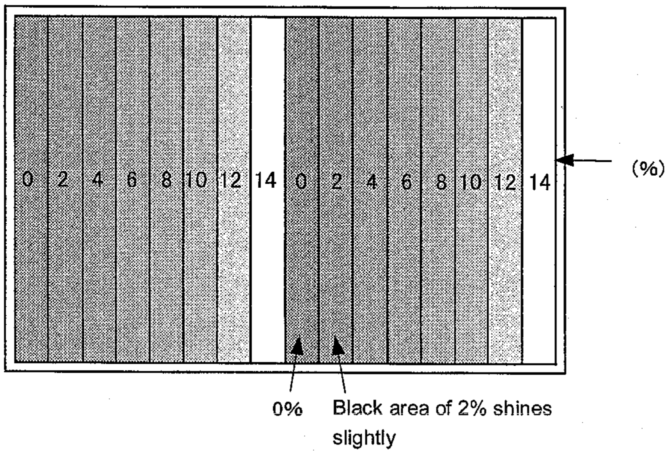


0% Black area of 2% shines slightly

36. Bright (1080i)

Measuring Instruments	Video signal generator
Preparation before Adjustments	Adjustments of contrast and white balance shall be completed beforehand. The <PICTURE ADJ.> of the <MAIN MENU> shall be initialized.
Signals to be used	1080i video signal - Gray scale pattern (2% STEP)

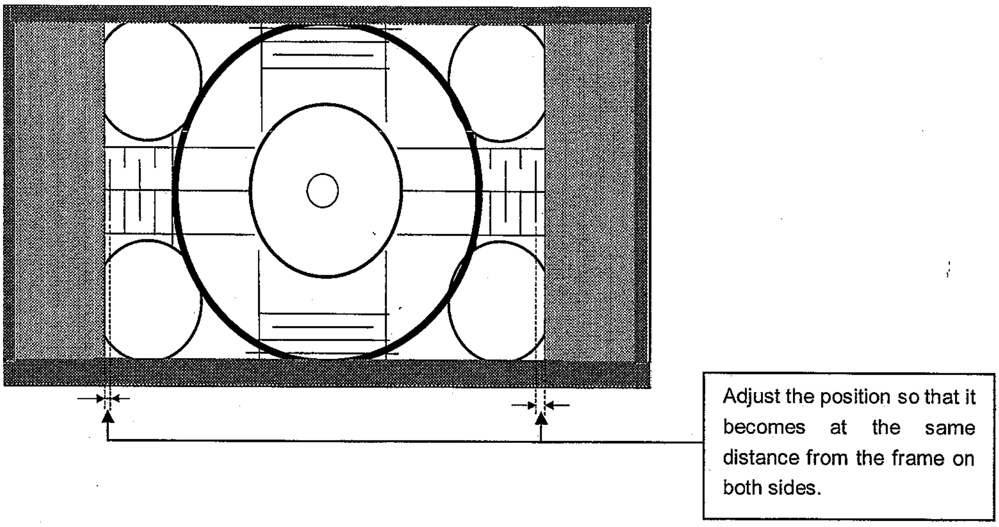
1. Input the signal to COMPONENT terminal.
2. Adjust the <SERVICE MENU> signal block SK11 so that the black area of 2% shines slightly and the black area of 0% does not shine with the brightness more than the pre-discharge brightness on the panel screen.
   (Care must be taken not to make the panel screen with the state of "black embossment".)


0
2
4
6
8
10
12
14
0
2
4
6
8
10
12
14
(%)
0%
Black area of 2% shines slightly

37. NTSC horizontal screen position (REGULAR)

Measuring Instruments	Video signal generator
Signals to be used	Video signal NTSC - monoscope pattern or cross-hatch pattern

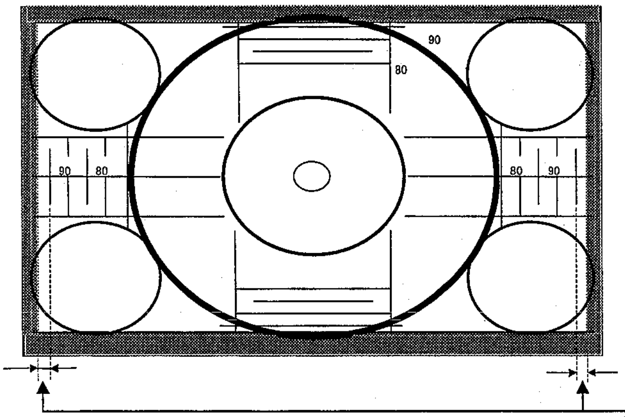
1. Input the signal to VIDEO A.
2. Change ASPECT to REGULAR after the steps of < MAIN MENU > → < FUNCTION SELECT >.
3. Adjust the <SERVICE MENU>SIZE/POSITION block DA18 so that the horizontal screen is positioned at the same distance from both sides.


Adjust the position so that it becomes at the same distance from the frame on both sides.

38. NTSC Horizontal screen position (FULL, ZOOM, PANORAMIC)

Measuring Instruments	Video signal generator
Signals to be used	Video signal NTSC - Monoscope pattern or cross-hatch pattern

1. Input the signal to VIDEO A.
2. Change ASPECT to FULL after the steps of < MAIN MENU > → < FUNCTION SELECT >.
3. Adjust the <SERVICE MENU>SIZE/POSITION block DB18 so that the horizontal screen position is placed on the same distance from the left and right sides.
4. Change ASPECT to ZOOM.
5. Adjust the <SERVICE MENU> SIZE/POSITION block DC18 so that the horizontal screen position is placed on the same distance from the left and right sides.
6. Change ASPECT to PANORAMIC.
7. Adjust the <SERVICE MENU>SIZE/POSITION block DD18 so that the horizontal screen position is placed on the same distance from the left and right sides.

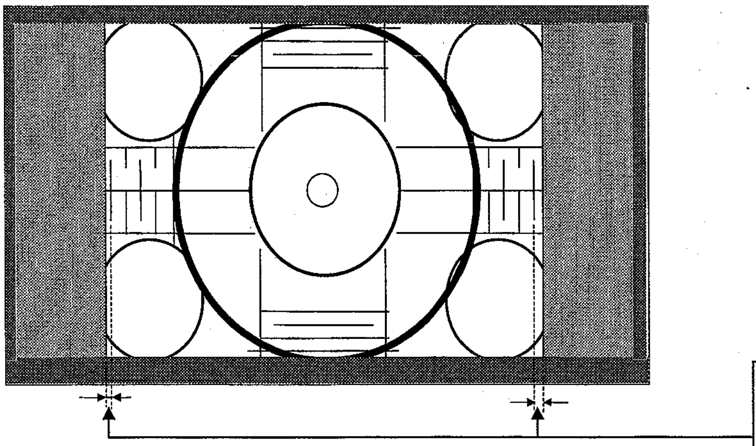


Adjust the position so that it becomes at the same distance from the frame on both sides.

39. PAL horizontal screen position (REGULAR)

Measuring Instruments	Video signal generator
Signals to be used	Video signal PAL - monoscope pattern or cross-hatch pattern

1. Input the signal to VIDEO A.
2. Change ASPECT to REGULAR after the steps of < MAIN MENU > → < FUNCTION SELECT >.
3. Adjust the <SERVICE MENU> SIZE/POSITION block DE18 so that the horizontal screen is positioned at the same distance from both sides.

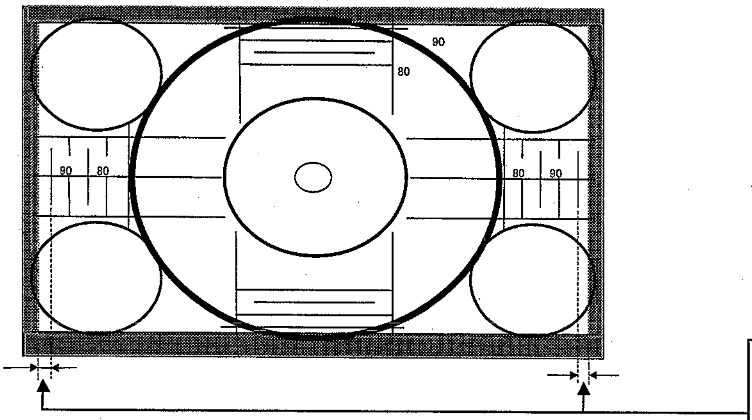


Adjust the position so that it becomes at the same distance from the frame on both sides.

40. PAL Horizontal screen position (FULL, ZOOM, PANORAMIC)

Measuring Instruments	Video signal generator
Signals to be used	Video signal PAL - Monoscope pattern or cross-hatch pattern

1. Input the signal to VIDEO A.
2. Change ASPECT to FULL after the steps of < MAIN MENU > → < FUNCTION SELECT >.
3. Adjust the <SERVICE MENU> SIZE/POSITION block DF18 so that the horizontal screen position is placed on the same distance from the left and right sides.
4. Change ASPECT to ZOOM.
5. Adjust the <SERVICE MENU> SIZE/POSITION block DG18 so that the horizontal screen position is placed on the same distance from the left and right sides.
6. Change ASPECT to PANORAMIC.
7. Adjust the <SERVICE MENU> SIZE/POSITION block DH18 so that the horizontal screen position is placed on the same distance from the left and right sides.

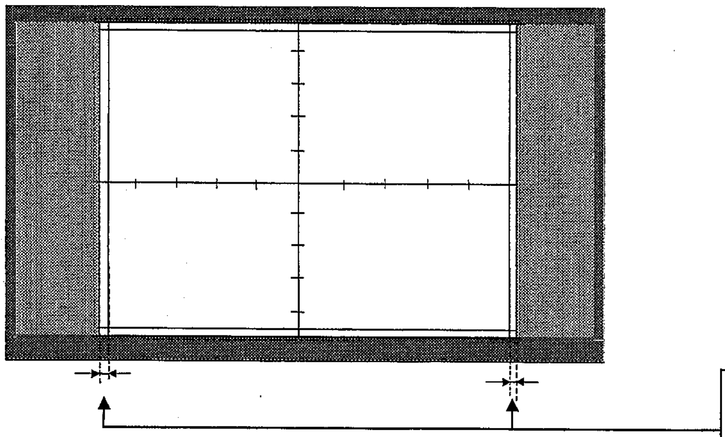


Adjust the position so that it becomes at the same distance from the frame on both sides.

41. 480p Horizontal screen position (NORMAL)

Measuring Instruments	Video signal generator
Signals to be used	480 p video signal - Position adjusting pattern or cross-hatch pattern

1. Input the signal to COMPONENT terminal.
2. Change ASPECT to REGULAR after the steps of < MAIN MENU > → < FUNCTION SELECT >.
3. Adjust the <SERVICE MENU> SIZE/POSITION block DI18 so that the horizontal screen is positioned at the same distance from both sides.

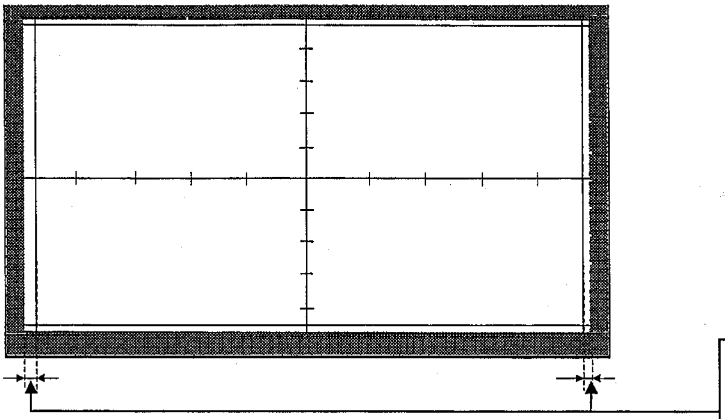


Adjust the position so that it becomes at the same distance from the frame on both sides.

42. 480p Horizontal screen position (FULL)

Measuring Instruments	Video signal generator
Signals to be used	480 p video signal - Position adjusting pattern or cross-hatch pattern

1. Input the signal to COMPONENT terminal.
2. Change ASPECT to REGULAR after the steps of < MAIN MENU > → < FUNCTION SELECT >.
3. Adjust the <SERVICE MENU> SIZE/POSITION block DJ18 so that the horizontal screen is positioned at the same distance from both sides.

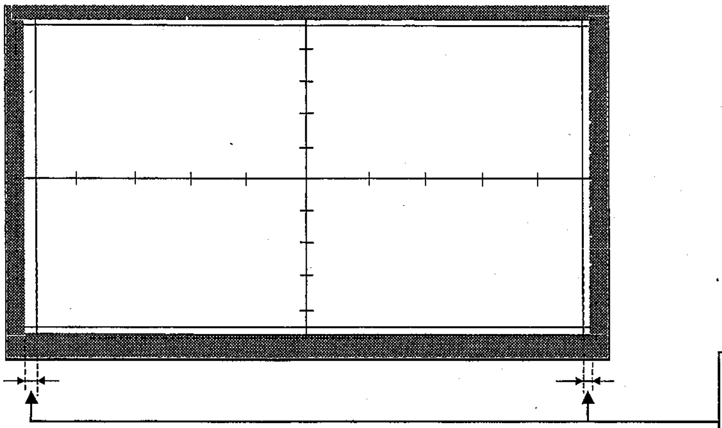


Adjust the position so that it becomes at the same distance from the frame on both sides.

43. 720p Horizontal screen position

Measuring Instruments	Video signal generator
Signals to be used	720p video signal - Position adjusting pattern or cross-hatch pattern

1. Input the signal to COMPONENT terminal.
2. Adjust the <SERVICE MENU> SIZE/POSITION block DK18 so that the horizontal screen is positioned at the same distance from both sides.

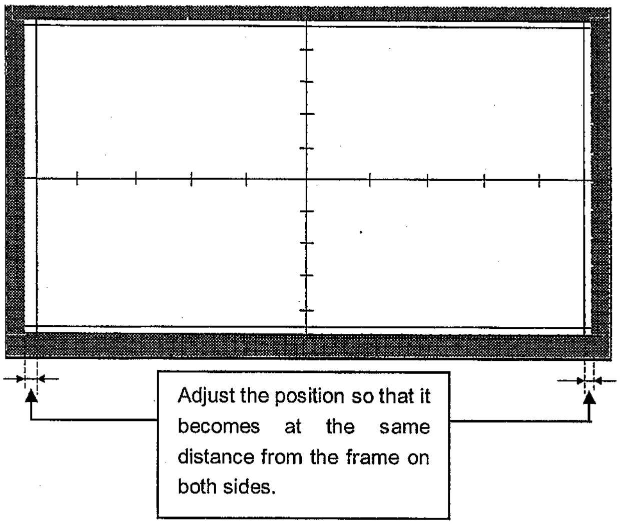


Adjust the position so that it becomes at the same distance from the frame on both sides.

44. 1080i Horizontal screen position

Measuring Instruments	Video signal generator
Signals to be used	1080i video signal - Position adjusting pattern or cross-hatch pattern

1. Input the signal to COMPONENT terminal.
2. Adjust the <SERVICE MENU> SIZE/POSITION block DL18 so that the horizontal screen is positioned at the same distance from both sides.



Adjust the position so that it becomes at the same distance from the frame on both sides.

45. PC horizontal screen position

Measuring Instruments	PC video signal generator
Signals to be used	PC video signal - circle pattern or cross-hatch pattern

1. Input the signal to PC terminal.
2. Make sure that the ∗-mark is shown after the frequency status indication such as 24KHz and 56Hz.
3. Change ASPECT to REGULAR after the steps < MAIN MENU > → < FUNCTION SELECT >.
4. Check the both ends of the left and right sides of the screen position and adjust the <SERVICE MENU>[A] (DO18 when PC98 is used) so that the horizontal screen position is centered.
5. Change ASPECT to FULL after the steps < MAIN MENU > → < FUNCTION SELECT >.
6. Check the both ends of the left and right sides of the screen position and adjust the <SERVICE MENU>[B] (DP18 in case where PC98 is used) so that the horizontal screen position is centered.
7. Make the same adjustments for the preset signal given below.

No.	PRESET SIGNAL	FREQUENCY		NUMBER OF EFFECTIVE PIXELS		SERVICE NO. FOR SERVICE	
		HORIZONTAL (kHz)	VERTICAL (Hz)	HORIZONTAL (dot)	VERTICAL (dot)	NORMAL [A]	FULL [B]
1	PC98	24.82	56.42	640	400	DO18	DP18
2	VGA400-70	31.47	70.09	640	400	DM18	DN18
3	VGA-60	31.47	59.94	640	480	DQ18	DR18
4	VGA-72	37.86	72.81	640	480	DS18	DT18
5	VGA-75	37.50	75.00	640	480	DU18	DV18
6	MAC13"	35.00	66.67	640	480	DW18	DX18
7	SVGA-56	35.16	56.25	800	600	DZ18	DAA18
8	SVGA-60	37.88	60.32	800	600	DAB18	DAC18
9	SVGA-72	48.08	72.19	800	600	DY18	
10	XGA-60	48.36	60.00	1024	768	DAD18	
11	XGA-70	56.48	70.07	1024	768	DAE18	
12	RGB15K-60Hz	15.73	59.94	768	485	DAF18	DAG18

OPERATING INSTRUCTIONS

JVC

INSTRUCTION

ENGLISH

GD-V4200PZW
GD-V4200PZW-G

For Customer Use:

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. : GD-V4200PZW/GD-V4200PZW-G
Serial No. :

PLASMA DISPLAY MONITOR

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Thank you for purchasing this JVC monitor.
Before using the monitor, read this manual carefully so that you know how to use the monitor correctly.
Refer to this manual whenever questions or problems about operation arise. Be sure to read and observe the safety precautions.
Keep this manual where the user can see it easily.
** Installation and removal require special expertise. Consult your product dealer for details.*

Safety Precautions

ENGLISH

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

IMPORTANT INFORMATION

WARNING: This is Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

WARNING: TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

IMPORTANT SAFEGUARDS

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. But **IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD**. In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use and service. Please read these "Important Safeguards" carefully before use.

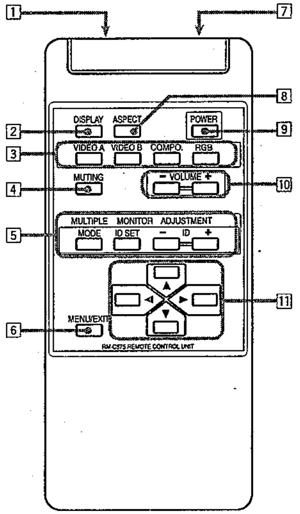
- All the safety and operating instructions should be read before the product is operated.
- The safety and operating instructions should be retained for future reference.
- All warnings on the product and in the operating instructions should be adhered to.
- All operating instructions should be followed.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Do not use attachments not recommended by the product manufacturer as they may be hazardous.
- Do not use this product near water. Do not use immediately after moving from a low temperature to high temperature, as this causes condensation, which may result in fire, electric shock, or other hazards.
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. The product should be mounted according to the manufacturer's instructions, and should use a mount recommended by the manufacturer.
- When the product is used on a cart, care should be taken to avoid quick stops, excessive force, and uneven surfaces which may cause the product and cart to overturn, damaging equipment or causing possible injury to the operator.

- Slots and openings in the cabinet are provided for ventilation. These ensure reliable operation of the product and protect it from overheating. These openings must not be blocked or covered. (The openings should never be blocked by placing the product on bed, sofa, rug, or similar surface. It should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.)

  For proper ventilation, separate the product from other equipment, which may prevent ventilation and keep distance more than 10 cm (3 $^{15}/_{16}$ inches).
- This product should be operated only with the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
- This product is equipped with a three-wire plug. This plug will fit only into a grounded power outlet. If you are unable to insert the plug into the outlet, contact your electrician to install the proper outlet. Do not defeat the safety purpose of the grounded plug.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at doors, plugs, receptacles, and the point where they exit from the product.
- For added protection of this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges.
- Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.
- Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages and other hazards. Refer all service to qualified service personnel.
- Unplug this product from the wall outlet and refer service to qualified service personnel under the following conditions:
  - a) When the power supply cord or plug is damaged.
  - b) If liquid has been spilled, or objects have fallen on the product.
  - c) If the product has been exposed to rain or water.
  - d) If the product operated normally by following the operating instructions. Adjust only those controls that are covered by the Operation Manual, as an improper adjustment of controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
  - e) If the product has been dropped or damaged in any way.
  - f) When the product exhibits a distinct change in performance – this indicates a need for service.
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- The product should be placed more than 30 cm (11 $^{15}/_{16}$ inches) away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.
- When connecting other products such as VCR's, and personal computers, you should turn off the power of this product for protection against electric shock.
- Do not place combustibles behind the cooling fan. For example, cloth, paper, matches, aerosol cans or gas lighters that present special hazards when over heated.
- Use only the accessory cord designed for this product to prevent shock.

Parts Identification

Remote Control



1. **Remote signal transmission window**

2. **DISPLAY button (page 12)**
   Use this button to display the input terminal, color system (for VIDEO A or B input), scan system (for COMPONENT input) and horizontal/vertical frequency (for RGB input).
   Pressing the button again will make the display disappear.

3. **VIDEO A, VIDEO B, COMPO., and RGB buttons (page 12)**
   Use these buttons to switch between inputs.

4. **MUTING button (page 12)**
   Use this button to turn off the volume immediately.
   Pressing the button again will resume the previous volume level.

5. **MULTIPLE MONITOR ADJUSTMENT button (page 24)**
   Use these buttons to set IDs, etc. when serial connection is made.

6. **MENU/EXIT button**
   Use this button to display or erase menus.
   While a sub-menu is displayed, pressing this button will move you one screen back to the preceding menu.

7. **Remote control cable jack (page 24)**
   Connect the remote control cable when using this remote control as a wired remote control.

8. **ASPECT button (page 13)**
   Use this button to switch between aspect ratios. Each time you press the button, the aspect ratio changes as follows:

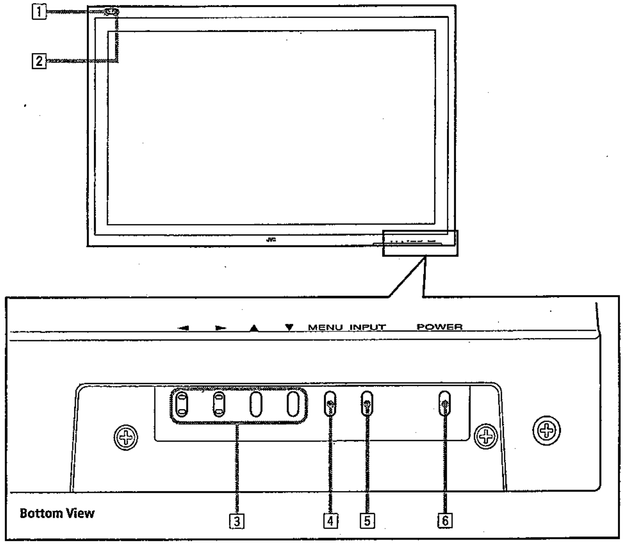
   $$\begin{tikzcd} \text{REGULAR} \arrow[r] & \text{FULL} \arrow[d] \\ \text{PANORAMIC} \arrow[u] & \text{ZOOM} \arrow[l] \end{tikzcd}$$

9. **POWER button (page 12)**
   Use this button to turn on /off the power.

10. **VOLUME + / – button (page 12)**
    Use this button to adjust the volume level.

11. **◄ / ► / ▲ / ▼ buttons**
    Use these buttons to select menu items or make adjustments.

Monitor: Front View



1. **Remote sensor/power lamp**
   Point the front end of the wireless remote control toward here.
   When the Monitor is turned on, the power lamp glows green. It glows red in standby mode.

2. **Self-diagnostic lamps (page 29)**
   These lamps light/flash if something abnormal occurs with the Monitor.

3. **◄ / ► / ▲ / ▼ buttons**
   Use these buttons to select menu items and to make adjustments.
   - When no menu is displayed, you can use the ▲ / ▼ buttons to adjust the volume level.

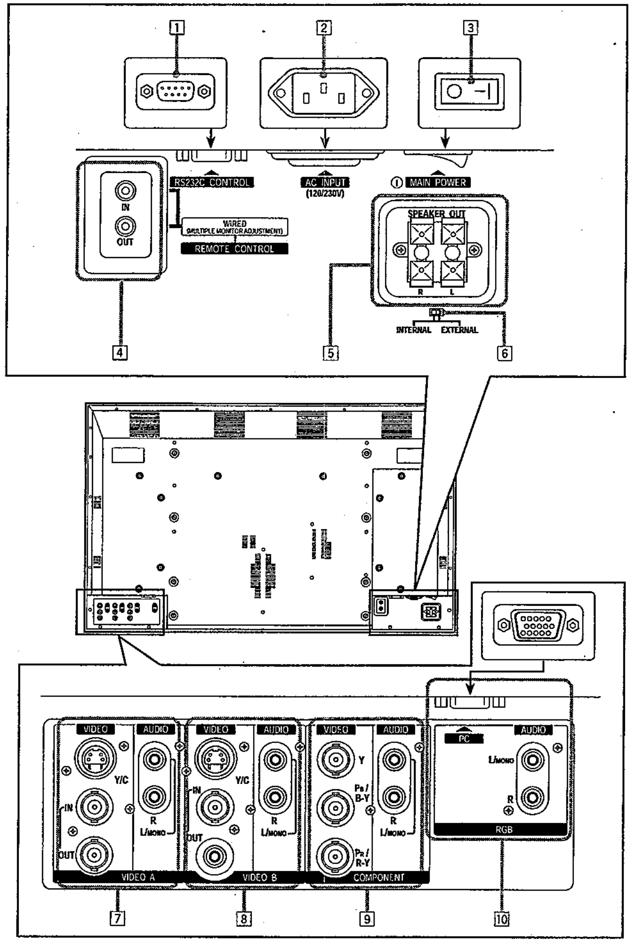
4. **MENU button**
   Use this button to display or erase menus.
   While a sub-menu is displayed, pressing this button will move you one screen back to the preceding menu.

5. **INPUT button (page 12)**
   Use this button to switch between inputs.

6. **POWER button (page 12)**
   Use this button to turn on and off the Monitor.

Parts Identification (Continued)

Monitor: Rear View



1 **RS-232C CONTROL Input terminal (D-sub, 9-pin) (page 11)**
Connect this terminal to the RS-232C terminal of a personal computer.
- For the control method using this terminal, consult an authorized JVC dealer.

2 **AC INPUT terminal (page 11)**
Connect the supplied power cord to this terminal.

3 **MAIN POWER switch (page 12)**
Setting this switch to ON will put the Monitor into standby mode, allowing you to turn on and off the power using the POWER button either on the remote control or on the Monitor.

4 **REMOTE CONTROL terminals (mini jack) (page 24)**
- IN
  For Master Monitor: Connect a wired remote control to this terminal for serial connection.
  For Slave Monitors: Connect to the REMOTE CONTROL OUT terminal of another Monitor in serial connection.
- OUT
  Connect to the REMOTE CONTROL IN terminal of anther Monitor for serial connection.

5 **SPEAKER OUT terminals (page 11)**
Connect external speakers.

6 **INTERNAL/EXTERNAL (built-in speaker/external speaker) selecting switch (page 11)**
INTERNAL: To use built-in speakers.
EXTERNAL: To use external speakers.

7 **VIDEO A terminals (page 11)**
- Y/C (S video) input terminal (BNC)
  Connect this terminal to the S-video output terminal of a VCR, etc.
- Video input terminal (BNC)
  Connect this terminal to the video output terminal of a VCR, etc. You can also use it as a video output terminal.
- Video output terminal (BNC)
  Connect this terminal to the video input terminal of another Monitor. You can also use it as a video input terminal.
- Audio input terminals (pin jack)
  Connect these terminals to the audio input terminals of a VCR, etc.

8 **VIDEO B terminals (page 11)**
- Y/C (S video) input terminal (BNC)
  Connect this terminal to the S-video output terminal of a VCR, etc.
- Video input terminal (BNC)
  Connect this terminal to the video output terminal of a VCR, etc. You can also use it as a video output terminal.
- Video output terminal (pin jack)
  Connect this terminal to the video input terminal of another Monitor.
  You can also use it as a video input terminal.
- Audio input terminals (pin jack)
  Connect these terminals to the audio output terminals of a VCR, etc.

Notes:
- Since the video output terminals on this Monitor are loop-though terminals, the devices connected to these video output terminals should be correctly terminated. Otherwise, picture becomes abnormally bright.
- When both the video and S-video terminals are connected, the S-video terminal will have priority.

9 **COMPONENT input terminal (page 11)**
- Y, P_B/B-Y, P_R/R-Y input terminals (BNC)
  Connect these terminals to the component signal output terminals of NTSC or high-vision equipment.
- Audio input terminals (pin jack)
  Connect these terminals to the audio output terminals of another equipment.

10 **RGB input terminals (page 11)**
- PC input terminal (D-sub, 15-pin)
  Connect this terminal to the video output terminal of a personal computer.
- Audio input terminals (pin jack)
  Connect these terminals to the audio output terminals of a personal computer.

Preparations

Checking the Accessories

The following accessories are included with the Monitor. Check for them. If any item is missing, please contact the dealer where you purchased the Monitor.

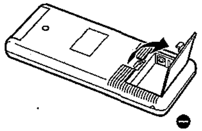
- Remote control (RM-C575) x 1
- Remote control cable x 1
- Power cord (approx. 2.5 m) x 3 (Use the one matching the wall outlet.)
- Batteries (AA/R6P) x 2

Installing the Batteries

Put the batteries in the remote control as follows. If the remote control has become erratic in operation, change the batteries.

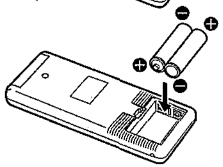
1 Remove the back cover.

While pushing the release lever on the cover, remove the cover in the direction of the arrow.



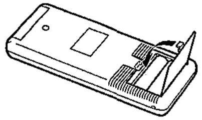
2 Place the batteries.

Put the two supplied batteries (AA/R6P), noting the ⊕ and ⊖ markings, as shown.



3 Replace the back cover as illustrated.

Make sure the release lever on the cover is locked in place correctly.



Precautions for using batteries

If batteries are used improperly, the liquid could leak out, causing a fire, injury, etc. or dirtying the vicinity.
Take notice of the following:

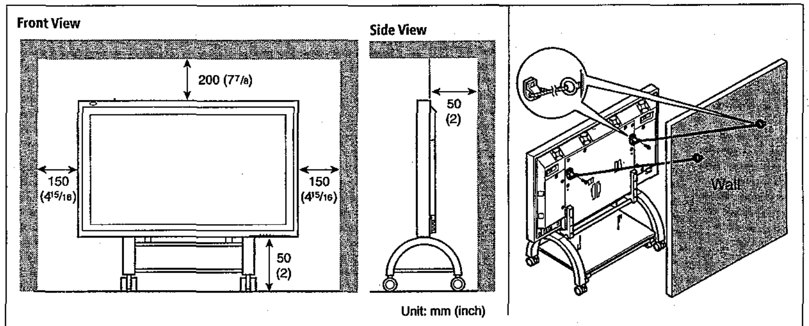
- Do not mix old and new batteries.
- Do not mix different types of battery as different types may have different characteristics.
- Place the batteries according to the ⊕ and ⊖ markings indicated on the battery compartment.
- When installing the batteries, insert the ⊖ end first to avoid a short circuit.
- Use only the specified batteries.
- When you are not using the remote control for a long time, remove the batteries.
- When the batteries have reached the end of their life, replace them with new ones immediately. Otherwise, the liquid may leak out, or malfunction may be caused by the leaked liquid. If the leaked liquid contacts your skin, wipe off the liquid with a soft cloth. If the affected skin is left as is, you may get a rough skin.
- Do not throw the batteries into fire or try recharging them.
- The service life of batteries is six months to one year for normal use. The supplied batteries are only for checking the operation and their life may be shorter. When the remote control operation becomes erratic, replace with new batteries.

Installation

Precautions

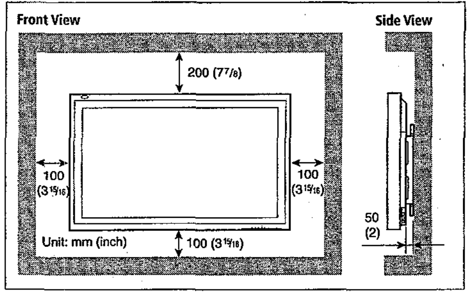
- **When mounting the Monitor vertically, it is necessary to reset the cooling fan to have better heat dissipation. Consult your dealer for the appropriate fan setting.**
- When installing the Monitor, be sure to use a dedicated Stand Unit, Wall Mounting Unit, or Monitor Hanger Unit, depending on a particular case. Ask your dealer for installation.
- When installing the Monitor, refer also to the user manual for each option to use. Do not tilt the Monitor rightward, leftward, or backward.
- Route the power cord and connection cables along wall or floor corners to avoid walking on them.
- For good heat dissipation, try to leave the following distances of space (minimum) around the Monitor.
- The ambient temperature of the installation place should be within the range of 0°C to 40°C.

When installing the Monitor on a stand

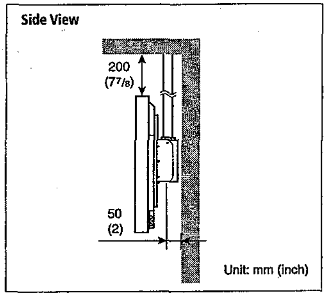


Take measures against the Monitor from overturning:
To protect against abnormal events such as earthquakes and to prevent unexpected accidents, take appropriate measures for preventing the Monitor from overturning; should it overturn, this could lead to personal injury.
For detailed information, refer to the manual supplied for the stand.

When mounting the Monitor on the wall



When hanging the Monitor from the ceiling



Notes:

- Do not allow the same image (pattern) to be continuously displayed on the screen for a long time; otherwise, the area on the screen corresponding to the image may vary in brightness, leaving an afterimage on the screen. To reduce the afterimage, you can use the White Back function (see page 22).
- Viewing the screen continuously for long hours may fatigue your eyes. It is recommended that you watch the Monitor at an appropriate distance. (A rough guide is at a distance of 3 x the vertical length of the screen or over.)
- The Monitor is manufactured using very high-precision technology, allowing for more than 99.99% active pixels, however, be aware that only a slight number of pixels may be deficient or lit at all times.
- Do not install the Monitor in such a way that the Monitor and other AV equipment affect each other adversely. (For example, if a disturbed image or noise due to electromagnetic interference occurs, or if the infrared remote control malfunctions, change the installation place.)

Connections

Precautions

- Before making connections, turn off all the equipment.
- Plugs should be firmly inserted; poor connection could cause noise.
- To unplug a cord, be sure to grasp its plug and pull it out.
- Connect the power cord after having finished all other connections.
- Refer also to the user manual of each piece of equipment.

Available Signals

Video signals

The following signals can be input to this Monitor:

- VIDEO A and VIDEO B terminals accept — PAL, NTSC, and SECAM signals.
- COMPONENT terminals accept — 480i, 576i, 480p, 720p, and 1080i signals.

Computer signals (Preset and user-defined video modes)

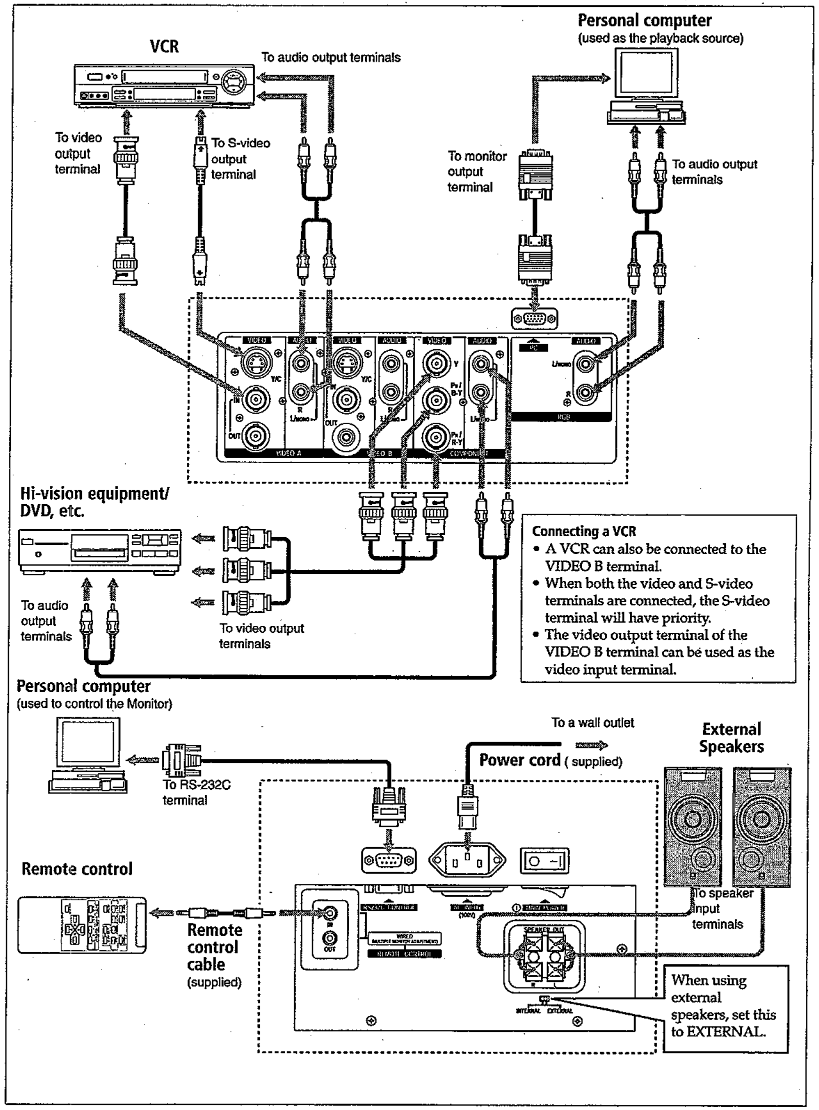
This Monitor has 13 preset video mode for the most popular industrial standard (marked with ● in the table below), and the signals of the following image resolutions can be input to the RGB input terminals.
For less common video modes, this Monitor can also display a picture, and memorize the video modes as user-defined video modes (up to five modes).
When a signal other than any of the preset modes is input, it will automatically be stored as a user-defined video mode, and when a sixth user-defined video signal is input, the first mode will be erased from memory.

No.	Signal name	Screen resolution		Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Scan system	Preset setting
		Horizontal	Vertical				
1	PC98	640	400	24.8	56.4	Non-interlace	●
2	VGA400-70	640	400	31.5	70.1	Non-interlace	●
3	VGA480-60	640	480	31.5	59.9	Non-interlace	●
4	VGA480-72	640	480	37.9	72.8	Non-interlace	●
5	VGA480-75	640	480	37.5	75.0	Non-interlace	●
6	MAC13"	640	480	35.0	66.7	Non-interlace	●
7	SVGA-56	800	600	35.2	56.3	Non-interlace	●
8	SVGA-60	800	600	37.9	60.3	Non-interlace	●
9	SVGA-72	800	600	48.1	72.2	Non-interlace	●
10	XGA-60	1024	768	48.4	60.0	Non-interlace	●
11	XGA-70	1024	768	56.5	70.1	Non-interlace	●
12	RGB15K-60	—	—	15.7	59.9	Interlace	●
13	RGB15K-50	—	—	15.6	50.0	Interlace	●
–	User-defined	—	—	15.0 – 16.0	50.0 – 75.0	Interlace	
–	User-defined	—	—	16.0 – 56.0	50.0 – 75.0	Non-interlace	

Notes:

- When No.9 to No.11 signals come in, the aspect ratio is fixed to REGULAR and does not change to a wide screen even if you press ASPECT.
- When a signal other than listed above is input, a part of the screen may become void or an unnecessary picture may appear.
- Signals, though they are within the acceptable range of frequencies, may not be displayed normally, depending on the signal type.
- Depending on the connected equipment, the Monitor may not be compatible with composite sync (Cs) or G on sync signals.
- When a preset mode signal is input, the vertical frequency displayed on the screen will have an "*" shown at its right top position.
- When No. 7 to No. 11 signals are input, thin lines may happen to be hard to view on the screen, due to the internal digital processing.

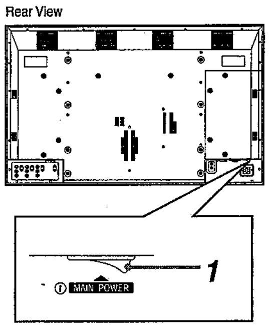
Connection Examples

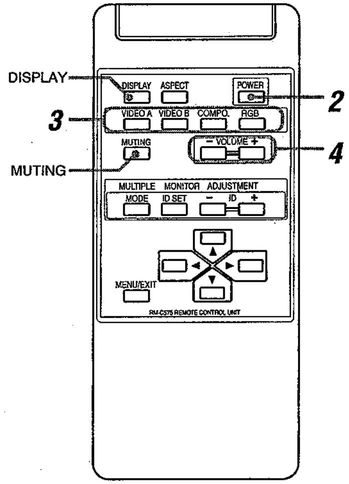

Personal computer
(used as the playback source)
VCR
To audio output terminals
To video output terminal
To S-video output terminal
To monitor output terminal
To audio output terminals
Hi-vision equipment/ DVD, etc.
To audio output terminals
To video output terminals
Personal computer
(used to control the Monitor)
To RS-232C terminal
To a wall outlet
Power cord (supplied)
External Speakers
To speaker input terminals
Remote control
Remote control cable
(supplied)
When using external speakers, set this to EXTERNAL.

Connecting a VCR

- A VCR can also be connected to the VIDEO B terminal.
- When both the video and S-video terminals are connected, the S-video terminal will have priority.
- The video output terminal of the VIDEO B terminal can be used as the video input terminal.

Basic Operations





Daily Operations

1 Turn on the main power.

Set MAIN POWER on the back of the Monitor to ON.
The POWER lamp on the upper left of the front panel glows red.

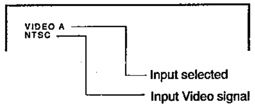
2 Turn on the power.

Press POWER on the remote control to turn the power on.
The POWER lamp changes to glow green.

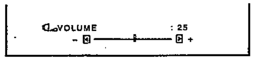
3 Select an input.

Select the desired input by pressing VIDEO A, VIDEO B, COMPO. or RGB.

Ex. When selecting "VIDEO A" input



4 Adjust the volume.



Notes:

- While no menu is displayed, you can adjust the volume by pressing ▲/▼ on the Monitor.
- You can also select the input by pressing INPUT on the Monitor. Each time you press the button, the input mode changes in sequence.
- When the INTERNAL/EXTERNAL selecting switch on the back of the Monitor is set to EXTERNAL, no sounds come out of the built-in speakers.
  When you want to hear audio sound from the built-in speakers, set the INTERNAL/EXTERNAL selecting switch to INTERNAL.

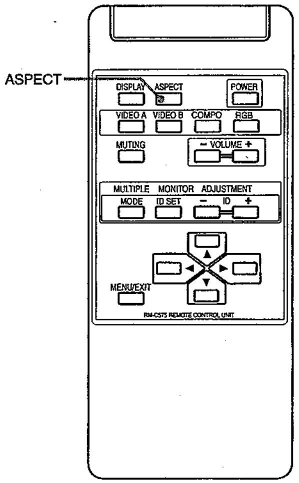
To turn off the volume immediately

Press MUTING.
"MUTING ON" is displayed, and the sound goes out.
Pressing the button again resumes the previous volume level.

To make the screen indication appear

Press DISPLAY.
The types of input and signal are indicated on the screen.
Pressing the button again will make the screen indication disappear.
You can also make the screen indication appear using menus (page 20).

Changing the Aspect Ratio



Precautions for using the screen mode switching function

- This Monitor features a screen mode switching (aspect ratio change) function. If you select a mode different in aspect ratio from software such as TV programs, the picture may look different from original picture. Be aware of this point when you are selecting a screen mode.
- If you select a wide screen mode while viewing conventional video programs of the aspect ratio 4:3, some portions (edges) of the original picture will be cut off, or deformed. To enjoy the original picture as it is, select "REGULAR" while viewing such programs.
- If you place the Monitor in a tea room, hotel, etc. for business purposes or public viewing and modify the picture by using the screen mode switching (aspect ratio change) function, this could violate the copyright protected by the copyright law, which requires your special attention.
- If you make the screen very bright and watch programs selecting "REGULAR" for a long period of time, the Monitor screen may happen to be burned in. If this occurs, watching programs using a wide screen mode for a while will reduce the burn-in gradually.

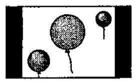
With this Monitor, you can select among three types of wide screens (FULL, ZOOM, and PANORAMIC) in addition to the REGULAR screen of conventional 4:3 aspect ratio.

Press ASPECT to select the screen size

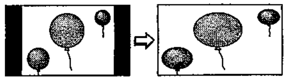
Each time you press the button, the screen size changes as follows:

→ REGULAR → FULL → ZOOM → PANORAMIC →

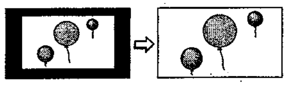
REGULAR: Displays at conventional 4:3 aspect ratio.



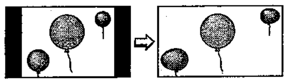
FULL: REGULAR size display is enlarged horizontally.



ZOOM: REGULAR size display is enlarged vertically and horizontally at the same ratio.



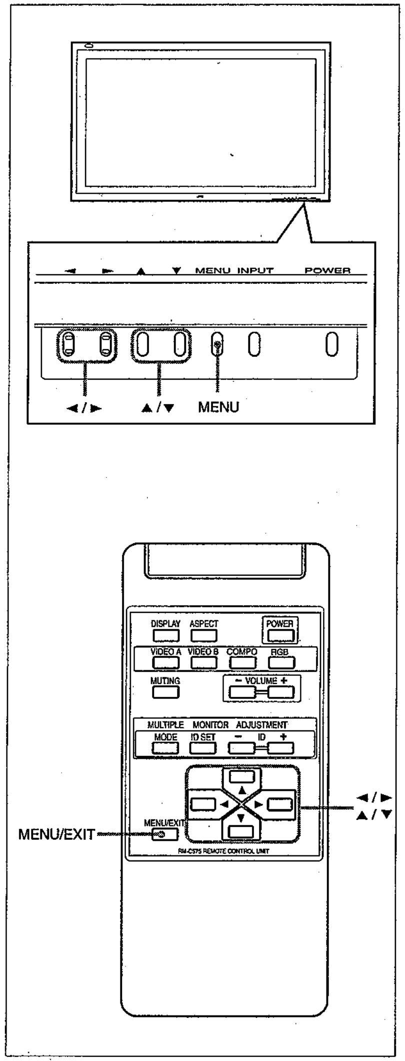
PANORAMIC: REGULAR size display is enlarged horizontally to the extent that the picture does not look abnormally.



Notes:

- When one of the following signals is being input, the aspect ratio is fixed and cannot be changed.
  Aspect ratio is fixed to REGULAR: When SVGA-72, XGA-60, or XGA-70 signal comes in (through the RGB input terminals)
  Aspect ratio is fixed to FULL: When 1080i or 720p signal comes in (through the COMPONENT input terminals)
  When 480p signal (through the COMPONENT input terminals) and any other signals than SVGA-72, XGA-60, and XGA-70 signal comes in (through the RGB input terminals), you can select only REGULAR and FULL.
- The aspect ratio can also be changed on the Function Selection Menu (page 18).

Video Adjustments



For video adjustments, use menus.
You can use the buttons either on the remote control or on Monitor for menu operations.

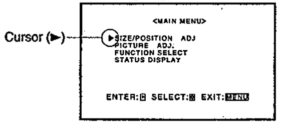
- Refer also to "Menu Classifications" on pages 26 and 27.

Adjusting the Screen Size and Position (For RGB input only)

While RGB input is selected, the screen size and position can be adjusted.
Adjusted settings can be stored for each signal type; therefore, when the same signal comes in, the stored settings are recalled.

- When adjusting the size, the size cannot be adjusted proportionally, but can be enlarged rightward (or downward) only and reduced leftward (or upward) only. Therefore, it is necessary to adjust both the size and position alternately to adjust to the appropriate size.

1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.

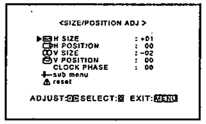


```
<MAIN MENU>
►SIZE/POSITION   ADJ
 PICTURE   ADJ.
 FUNCTION SELECT
 STATUS DISPLAY

ENTER:► SELECT:▲▼ EXIT:MENU
```

2 Press ▲/▼ to move the cursor (►) to "SIZE/POSITION ADJ."

3 Press ► to display the Size/Position Adjustment Menu.



```
<SIZE/POSITION ADJ >

►H SIZE          : +01
 H POSITION      :  00
 V SIZE          : –02
 V POSITION      :  00
  CLOCK PHASE    :  00
 sub menu
 reset

ADJUST:◄► SELECT:▲▼ EXIT:MENU
```

4 Press ▲/▼ to move the cursor (►) to the item you want to adjust.

Item	Adjustment range
H (horizontal) SIZE	–80 to +80
H POSITION	–80 to +80
V (vertical) SIZE	–80 to +80
V POSITION	–80 to +80
CLOCK PHASE*	–20 to +20
sub menu	See "To make an adjustment while viewing the adjustment bar" on the next page.
reset	See "To reset the adjustments" on the next page.

* CLOCK PHASE can be used to reduce flickering and blurring on the screen after adjusting the screen size.

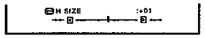
5 Press ◄/► to adjust the selected item.

6 Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.

To make an adjustment while viewing the adjustment bar

After step 3 on page 14, proceed as follows:

1 Press ▲/▼ to move the cursor (►) to "sub menu."
2 Press ► to display the Sub Menu.
The Sub Menu for H SIZE appears on the screen.



```
H SIZE        :+01
 ◄ ─────┼───── ►
```

3 Press ▲/▼ to select the Sub Menu you want to adjust.
Each time you press the button, the Sub Menu changes as follows:

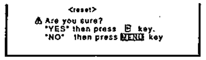
→ H SIZE ←→ H POSITION ←→ V SIZE ←
→ CLOCK PHASE ←→ V POSITION ←

4 Press ◄/► to adjust the selected item.
5 Repeat steps 3 and 4 to adjust the other items.
6 Press MENU/EXIT (or MENU on the Monitor) three times to exit from the menu operations.

To reset the adjustments

After step 3 on page 14, proceed as follows:

1 Press ▲/▼ to move the cursor (►) to "reset."
2 Press ►.
The confirmation screen appears.



```
<reset>
 Are you sure?
 "YES" then press ► key.
 "NO"  then press MENU key
```

3 Press ► again to reset the adjustments.
To cancel the reset, press MENU/EXIT (or MENU on the Monitor).

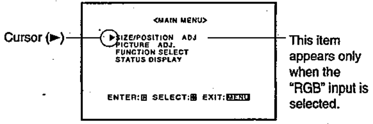
Note:

- Adjustment values for both horizontal and vertical sizes of the screen are so related that if one is adjusted up to near the maximum value, the attainable value of the other will be decreased.

Adjusting the Picture Quality

Picture quality can be set for each input mode.

1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.

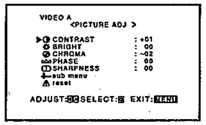


```
<MAIN MENU>
►SIZE/POSITION   ADJ
 PICTURE   ADJ.
 FUNCTION SELECT
 STATUS DISPLAY

ENTER:► SELECT:▲▼ EXIT:MENU
```

2 Press ▲/▼ to move the cursor (►) to "PICTURE ADJ."

3 Press ► to display the Picture Adjustment Menu.



```
VIDEO A
        <PICTURE ADJ >

► CONTRAST       : +01
  BRIGHT         :  00
  CHROMA         : –02
  PHASE          :  00
  SHARPNESS      :  00
  sub menu
  reset

ADJUST:◄► SELECT:▲▼ EXIT:MENU
```

4 Press ▲/▼ to move the cursor (►) to the item you want to adjust.

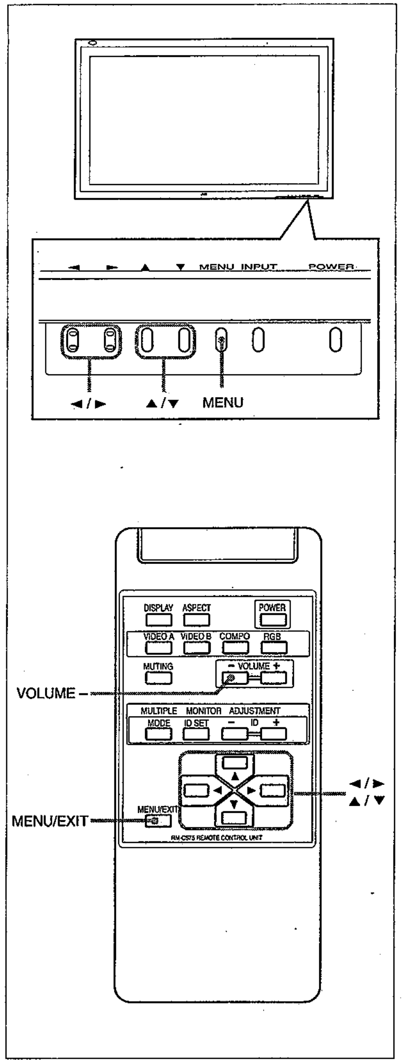
Item	Adjustment range
CONTRAST	–20 to +20
BRIGHT (brightness)	–20 to +20
CHROMA*	–20 to +20
PHASE**	–20 to +20
SHARPNESS	–20 to +20
sub menu	See "To make an adjustment while viewing the adjustment bar" on the next page.
reset	See "To reset the adjustments" on the next page.

* Adjustment is not possible when RGB input is selected.
** Adjustment is only possible when viewing NTSC signal through the VIDEO A or B terminal.

5 Press ◄/► to make adjustments.

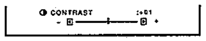
6 Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.

Video Adjustments (Continued)


◄ ► ▲ ▼ MENU INPUT POWER
◄/►
▲/▼
MENU
DISPLAY
ASPECT
POWER
VIDEO A
VIDEO B
COMPO
RGB
MUTING
– VOLUME +
MULTIPLE MODE
MONITOR ID SET
ADJUSTMENT
– ID +
MENU/EXIT
RM-C575 REMOTE CONTROL UNIT
VOLUME –
MENU/EXIT
◄/►
▲/▼

To make an adjustment while viewing the adjustment bar
After step 3 on page 15, proceed as follows:

1 **Press ▲/▼ to move the cursor (►) to "sub menu."**
2 **Press ► to display the Sub Menu.**
The Sub Menu for CONTRAST appears on the screen.


◑ CONTRAST :+01
- ◧ ◨ +

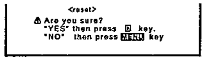
3 **Press ▲/▼ to select the Sub Menu you want to adjust.**
Each time you press the button, the Sub Menu changes as follows:

→ CONTRST ←→ BRIGHT ←→ CHROMA ←
→ SHARPNESS ←→ PHASE ←

4 **Press ◄/► to adjust the selected item.**
5 **Repeat steps 3 and 4 to adjust the other items.**
6 **Press MENU/EXIT (or MENU on the Monitor) three times to exit from the menu operations.**

To reset the adjustments
After step 3 on page 15, proceed as follows:

1 **Press ▲/▼ to move the cursor (►) to "reset."**
2 **Press ►.**
The confirmation screen appears.

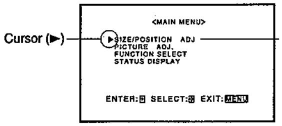

<reset>
⚠ Are you sure?
"YES" then press ◨ key.
"NO" then press MENU key

3 **Press ► again to reset the adjustments.**
To cancel the reset, press MENU/EXIT (or MENU on the Monitor).

Adjusting the Color Temperature

The adjusted setting applies to all inputs.

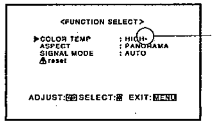
1 **Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.**


Cursor (►)
<MAIN MENU>
►SIZE/POSITION ADJ
PICTURE ADJ.
FUNCTION SELECT
STATUS DISPLAY
ENTER:◨ SELECT:⬍ EXIT:MENU

This item appears only when the "RGB" input is selected.

2 **Press ▲/▼ to move the cursor (►) to "FUNCTION SELECT."**

3 **Press ► to display the Function Selection Menu.**


<FUNCTION SELECT>
►COLOR TEMP : HIGH*
ASPECT : PANORAMA
SIGNAL MODE : AUTO
⚠reset
ADJUST:◧◨ SELECT:⬍ EXIT:MENU

"*" appears only when you have adjusted the White Balance (see page 17).

4 **Press ▲/▼ to move the cursor (►) to "COLOR TEMP."**

5 **Press ◄/► to make an adjustment.**
Each time you press the button, the color temperature alternate between "HIGH" and "LOW."

HIGH:	To make the screen become bluish.
LOW:	To make the screen become reddish.

6 **Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.**

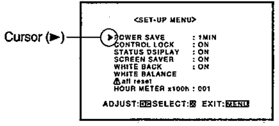
To reset the setting
You can only reset the color temperature, aspect ratio (see page 18), and video signal type (see page 19) at the same time. See "Resetting the Function Selection Menu Settings" on page 19.

Note:
- To make a fine adjustment, adjust "WHITE BALANCE" (see below).

Adjusting the White Balance

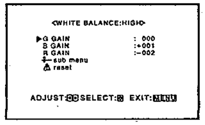
G GAIN, B GAIN and R GAIN can be finely adjusted separately for "HIGH" and "LOW" settings of the color temperature.
When using plural numbers of the Monitors, this can be useful to have the same color on each screen.

1 **On the remote control:**
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.
On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.


Cursor (►)
<SET-UP MENU>
►POWER SAVE : 1MIN
CONTROL LOCK : ON
STATUS DSIPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
WHITE BALANCE
⚠all reset
HOUR METER x100h : 001
ADJUST:◧◨ SELECT:⬍ EXIT:MENU

2 **Press ▲/▼ to move the cursor (►) to "WHITE BALANCE."**

3 **Press ► to display the White Balance Adjustment Menu.**


<WHITE BALANCE:HIGH>
►G GAIN : 000
B GAIN :+001
R GAIN :−002
⮠sub menu
⚠ reset
ADJUST:◧◨ SELECT:⬍ EXIT:MENU

4 **Press ▲/▼ to move the cursor (►) to the item you want to adjust.**

5 **Press ◄/► to adjust the selected item.**

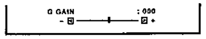
6 **Repeat steps 4 and 5 to adjust the other items.**

7 **Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.**

Notes:
- Adjustable range will vary among the Monitors.
- "MAX" may appear soon after you begin adjustment. This is normal but not a malfunction.

To make an adjustment while viewing the adjustment bars
After step 3 of the above procedure, proceed as follows:

1 **Press ▲/▼ to move the cursor (►) to "sub menu."**
2 **Press ► to display the Sub Menu.**
The Sub Menu for G GAIN appears on the screen.



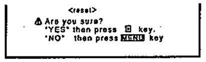
3 **Press ▲/▼ to select the Sub Menu you want to adjust.**
Each time you press the button, the Sub Menu changes as follows:

→ G GAIN ←→ B GAIN ←
→ R GAIN ←

4 **Press ◄/► to adjust the selected item.**
5 **Repeat steps 3 and 4 to adjust the other items.**
6 **Press MENU/EXIT (or MENU on the Monitor) three times to exit from the menu operations.**

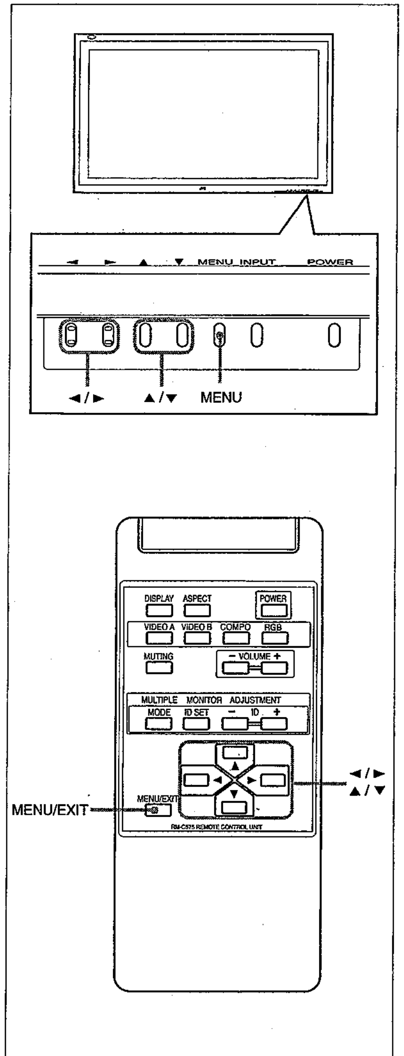
To reset the adjustments
After step 3 of the above procedure, proceed as follows:

1 **Press ▲/▼ to move the cursor (►) to "reset."**
2 **Press ►.**
The confirmation screen appears.


<reset>
⚠ Are you sure?
"YES" then press ◨ key.
"NO" then press MENU key

3 **Press ► again to reset the adjustments.**
To cancel the reset, press MENU/EXIT (or MENU on the Monitor).

Video Adjustments (Continued)

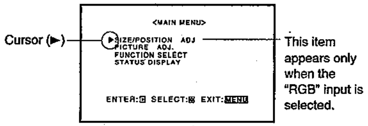

MENU INPUT POWER
◄/► ▲/▼ MENU
DISPLAY ASPECT POWER
VIDEO A VIDEO B COMPO RGB
MUTING – VOLUME +
MULTIPLE MODE MONITOR ID SET ADJUSTMENT – ID +
MENU/EXIT
◄/►
▲/▼
RM-C575 REMOTE CONTROL UNIT

Changing the Aspect Ratio

The setting adjusted applies to all inputs.

- You can change the aspect ratio by pressing ASPECT. (See page 13.)

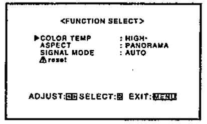
1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.


Cursor (►)
<MAIN MENU>
►SIZE/POSITION ADJ
PICTURE ADJ.
FUNCTION SELECT
STATUS DISPLAY
ENTER:► SELECT:▲▼ EXIT:MENU

This item appears only when the "RGB" input is selected.

2 Press ▲/▼ to move the cursor (►) to "FUNCTION SELECT."

3 Press ► to display the Function Selection Menu.


<FUNCTION SELECT>
►COLOR TEMP : HIGH
ASPECT : PANORAMA
SIGNAL MODE : AUTO
⚠reset
ADJUST:◄► SELECT:▲▼ EXIT:MENU

4 Press ▲/▼ to move the cursor (►) to "ASPECT."

5 Press ◄/► to select an aspect ratio you want.

Each time you press the button, the aspect ration changes as follows:

→REGULAR ←——→ FULL ←
→PANORAMIC ←——→ZOOM ←

* For detailed information on these aspect ratios, see page 13.

6 Press MENU/EXIT (or MENU on the Monitor) three times to exit from the menu operations.

To reset the setting

You can only reset the color temperature (see page 16), aspect ratio, and video signal type (see page 19) at the same time. See "Resetting the Function Selection Menu Settings" on the next page.

Note:

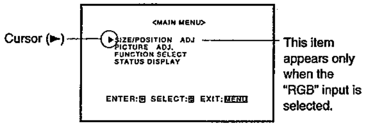
- When one of the following signals is being input, the aspect ratio is fixed and cannot be changed.
  Aspect ratio is fixed to REGULAR: When SVGA-72, XGA-60, or XGA-70 signal comes in (through the RGB input terminals)
  Aspect ratio is fixed to FULL: When 1080i or 720p signal comes in (through the COMPONENT input terminals)
  When 480p signal (through the COMPONENT input terminals) and any other signals than SVGA-72, XGA-60, and XGA-70 signal comes in (through the RGB input terminals), you can select only REGULAR and FULL.

Setting the Receivable Signal Types

You can set the receivable signal types. Normally, select "AUTO."

A common setting will apply to both VIDEO A and B terminals, and a different setting will apply to the COMPONENT terminal.

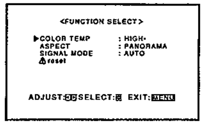
1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.


Cursor (►)
<MAIN MENU>
►SIZE/POSITION ADJ
PICTURE ADJ.
FUNCTION SELECT
STATUS DISPLAY
ENTER:► SELECT:▲▼ EXIT:MENU

This item appears only when the "RGB" input is selected.

2 Press ▲/▼ to move the cursor (►) to "FUNCTION SELECT."

3 Press ► to display the Function Selection Menu.


<FUNCTION SELECT>
►COLOR TEMP : HIGH
ASPECT : PANORAMA
SIGNAL MODE : AUTO
⚠reset
ADJUST:◄► SELECT:▲▼ EXIT:MENU

4 Press ▲/▼ to move the cursor (►) to "SIGNAL MODE."

5 Press ◄/► to select the receivable video signal type.

Each time you press the button, the receivable video signal type changes as follows:

- When VIDEO A or VIDEO B input is selected:

  →AUTO ←——→NTSC ←
  →SECAM ←——→ PAL ←

- When COMPONENT input is selected:

  →AUTO ←→ 480i ←→ 576i ←
  →1080i ←→720p ←→480p ←

6 Press MENU/EXIT (or MENU on the Monitor) twice to exit the menu operations.

To reset the setting

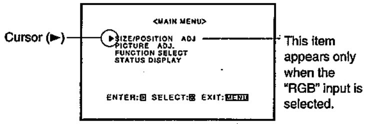
You can only reset the color temperature (see page 16), aspect ratio (see page 18), and video signal type at the same time. See "Resetting the Function Selection Menu Settings" below.

Resetting the Function Selection Menu Settings

You can reset all the following Function Selection Menu settings at a time.

- Color Temperature (see page 16)
- Aspect Ratio (see page 18)
- Receivable Signal Types: SIGNAL MODE (see page 19)

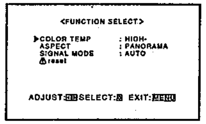
1 Press MENU/EXIT (or MENU on the Monitor) to display the Main Menu.


Cursor (►)
<MAIN MENU>
►SIZE/POSITION ADJ
PICTURE ADJ.
FUNCTION SELECT
STATUS DISPLAY
ENTER:► SELECT:▲▼ EXIT:MENU

This item appears only when the "RGB" input is selected.

2 Press ▲/▼ to move the cursor (►) to "FUNCTION SELECT."

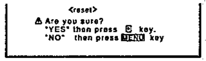
3 Press ► to display the Function Selection Menu.


<FUNCTION SELECT>
►COLOR TEMP : HIGH
ASPECT : PANORAMA
SIGNAL MODE : AUTO
⚠reset
ADJUST:◄► SELECT:▲▼ EXIT:MENU

4 Press ▲/▼ to move the cursor (►) to "reset."

5 Press ►.

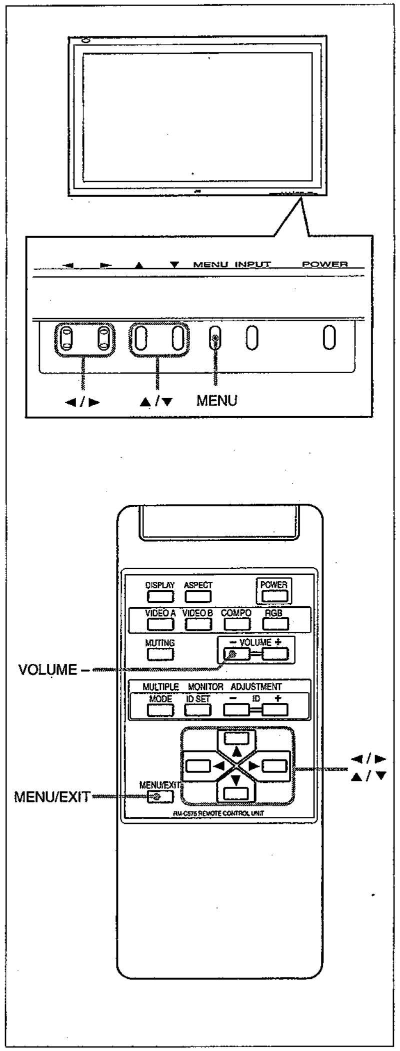
The confirmation screen appears.


<reset>
⚠ Are you sure?
"YES" then press ► key.
"NO" then press MENU key

6 Press ► again to reset the adjustments.

To cancel the reset, press MENU/EXIT (or MENU on the Monitor).

Other Convenient Functions


◄ ► ▲ ▼ MENU INPUT POWER
◄/►
▲/▼
MENU
VOLUME –
MENU/EXIT
◄/►
▲/▼
DISPLAY
ASPECT
POWER
VIDEO A
VIDEO B
COMPO
RGB
MUTING
– VOLUME +
MULTIPLE MODE
MONITOR ID SET
ADJUSTMENT
– ID +
MENU/EXIT
RM-C575 REMOTE CONTROL UNIT

To set the other convenient functions, use menus.
You can use the buttons either on the remote control or on Monitor for menu operations.

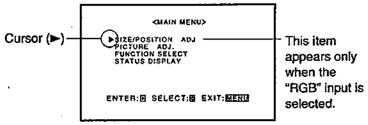
- Refer also to "Menu Classifications" on pages 26 and 27.

Showing On-screen Display

The input mode and signal type will be indicated on the screen.

- The following procedure can be don by using the buttons on the Monitor. You can also show these information by pressing DISPLAY on the remote control. (See page 12.)

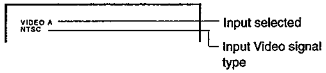
1 **Press MENU (or MENU/EXIT on the remote control) to display the Main Menu.**


Cursor (►)
<MAIN MENU>
►SIZE/POSITION ADJ
PICTURE ADJ.
FUNCTION SELECT
STATUS DISPLAY
ENTER:► SELECT:▲▼ EXIT:MENU
This item appears only when the "RGB" input is selected.

2 **Press ▲/▼ to move the cursor (►) to "STATUS DISPLAY."**

3 **Press ► to display the current input terminal and received signal type.**

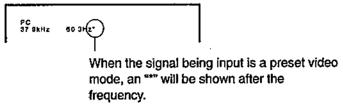
Ex. When selecting "VIDEO A" input


VIDEO A
NTSC
Input selected
Input Video signal type

Ex. When selecting "COMPONENT" input

COMPONENT
480i

Ex. When selecting "RGB" input


PC
37.9kHz 60.0Hz*

When the signal being input is a preset video mode, an "*" will be shown after the frequency.

Note:

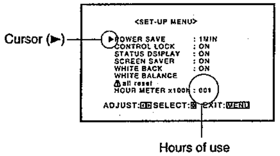
- If you want to make these information appear automatically when you change the input mode, see "Showing the On-screen When Changing the Input Mode" on page 22.

Confirming the Use Time

You can confirm the hours of use on the Setup Menu.
This may be necessary when you ask for any service.

1 **On the remote control:**
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.


Cursor (►)
<SET-UP MENU>
►POWER SAVE : 1MIN
CONTROL LOCK : ON
STATUS DSIPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
WHITE BALANCE
all reset
HOUR METER x100h : 001
ADJUST:◄► SELECT:▲▼ EXIT:MENU
Hours of use

2 **Confirm the hour of use.**

- The displayed value for the hours of use is divided by 100. To calculate the actual hours of use, multiply the displayed value by 100.

3 **Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.**

Notes:

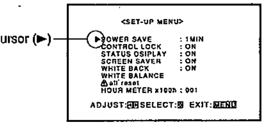
- The value for the hours of use is added by one hour unit. If you use the monitor within one hour. It will not be added to the hours of use.
- The period when the monitor is on standby (the power lamp glows red) will not be added to the hours of use.

Setting the Power Saving Function

This function allows you to turn off (into standby mode) automatically when no signal comes in for a certain period of time.

1 **On the remote control:**
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.


Cursor (►)
<SET-UP MENU>
►POWER SAVE : 1MIN
CONTROL LOCK : ON
STATUS DSIPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
WHITE BALANCE
all reset
HOUR METER x100h : 001
ADJUST:◄► SELECT:▲▼ EXIT:MENU

2 **Press ▲/▼ to move the cursor (►) to "POWER SAVE."**

3 **Press ◄/► to select the desired amount of time.**

Select the number of minutes before the Monitor goes into standby mode after the signal has ceased to be supplied.
Each time you press the button, the amount of time changes as follows:

OFF◄►1 MIN.◄►2 MIN.◄►3 MIN.◄►4 MIN.◄►5 MIN.

To cancel the Power Saving function, select "OFF."

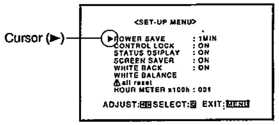
4 **Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.**

Prohibiting the Monitor's Button Operations

This function allows you to prohibit the button operations on the Monitor to prevent malfunction or avoid tampering.

1 **On the remote control:**
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.


Cursor (►)
<SET-UP MENU>
►POWER SAVE : 1MIN
CONTROL LOCK : ON
STATUS DSIPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
WHITE BALANCE
all reset
HOUR METER x100h : 001
ADJUST:◄► SELECT:▲▼ EXIT:MENU

2 **Press ▲/▼ to move the cursor (►) to "CONTROL LOCK."**

3 **Press ◄/► to select the desired setting.**

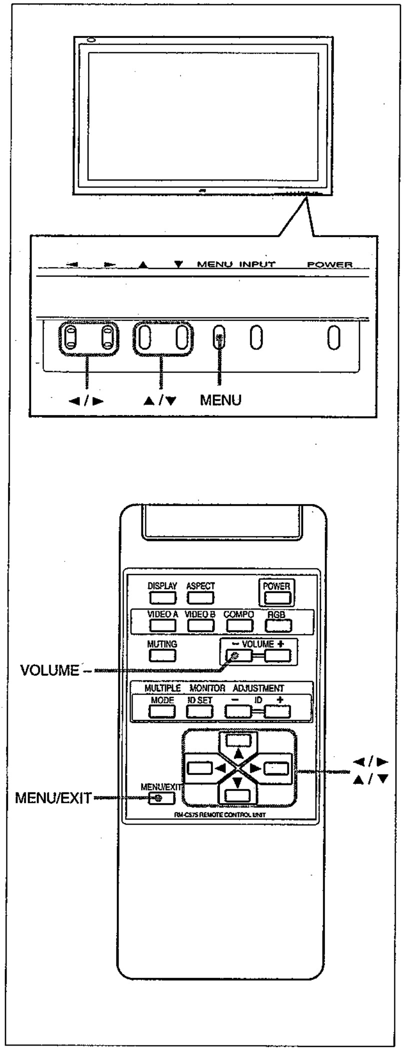
Each time you press the button, the Control Lock function alternates between "ON" and "OFF."
To cancel the Control Lock function, select "OFF."

4 **Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.**

Note:

- Even when the Control Lock function is in use, the following operations are possible:
  - Operation to cancel the Control Lock function
  - All operations from the remote control

Other Convenient Functions (Continued)

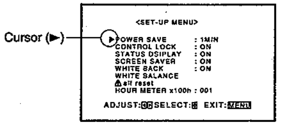


Reducing the Afterimage Effect

After the power is turned off, a whitish image may be left on the screen. In that case, leave the monitor in a white back state for a while, and the image will disappear.

1 **On the remote control:**
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.



```
<SET-UP MENU>
►POWER SAVE          : 1MIN
 CONTROL LOCK        : ON
 STATUS DSIPLAY      : ON
 SCREEN SAVER        : ON
 WHITE BACK          : ON
 WHITE BALANCE
 all reset
 HOUR METER x100h : 001
ADJUST:◄► SELECT:▲▼  EXIT:MENU
```

2 **Press ▲/▼ to move the cursor (►) to "WHITE BACK."**

3 **Press ◄/► to select the desired setting.**
The Setup Menu disappears, and the white screen appears.

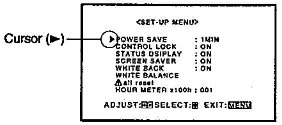
To cancel the White Back function
Repeat steps *1* and *2*, then select "OFF" by pressing ◄/►.

Showing the On-screen When Changing the Input Mode

With this function, you can see the selected input mode and signal type when changing the input mode.

1 **On the remote control:**
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.



```
<SET-UP MENU>
►POWER SAVE          : 1MIN
 CONTROL LOCK        : ON
 STATUS DSIPLAY      : ON
 SCREEN SAVER        : ON
 WHITE BACK          : ON
 WHITE BALANCE
 all reset
 HOUR METER x100h : 001
ADJUST:◄► SELECT:▲▼  EXIT:MENU
```

2 **Press ▲/▼ to move the cursor (►) to "STATUS DISPLAY."**

3 **Press ◄/► to select the desired setting.**
Each time you press the button, the Status Display function alternates between "ON" and "OFF."
To cancel the Status Display function, select "OFF."

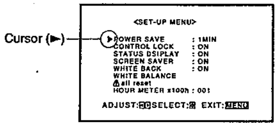
4 **Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.**

Using the Screen Saver Function

With this function, you can avoid the screen from being burned in.

1 **On the remote control:**
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.



```
<SET-UP MENU>
►POWER SAVE          : 1MIN
 CONTROL LOCK        : ON
 STATUS DSIPLAY      : ON
 SCREEN SAVER        : ON
 WHITE BACK          : ON
 WHITE BALANCE
 all reset
 HOUR METER x100h : 001
ADJUST:◄► SELECT:▲▼  EXIT:MENU
```

2 **Press ▲/▼ to move the cursor (►) to "SCREEN SAVER."**

3 **Press ◄/► to select the desired setting.**
Each time you press the button, the Screen Saver function alternates between "ON" and "OFF."
To cancel the Screen Saver function, select "OFF."

4 **Press MENU/EXIT (or MENU on the Monitor) twice to exit from the menu operations.**

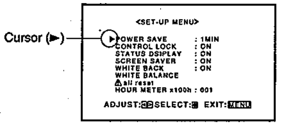
Resetting All the Setup Menu Settings

You can reset all the following Setup Menu settings at a time.

- Power Saving function (see page 21)
- Control Lock function (see page 21)
- Status Display function (see page 22)
- Screen Saver function (see the left column)
- White Back function (see page 22)
- White Balance adjustments (see page 17)

1 **On the remote control:**
Press MENU/EXIT while holding VOLUME – to display the Setup Menu.

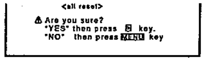
On the Monitor:
Press MENU while holding ◄ to display the Setup Menu.



```
<SET-UP MENU>
►POWER SAVE          : 1MIN
 CONTROL LOCK        : ON
 STATUS DSIPLAY      : ON
 SCREEN SAVER        : ON
 WHITE BACK          : ON
 WHITE BALANCE
 all reset
 HOUR METER x100h : 001
ADJUST:◄► SELECT:▲▼  EXIT:MENU
```

2 **Press ▲/▼ to move the cursor (►) to "all reset."**

3 **Press ►.**
The confirmation screen appears.



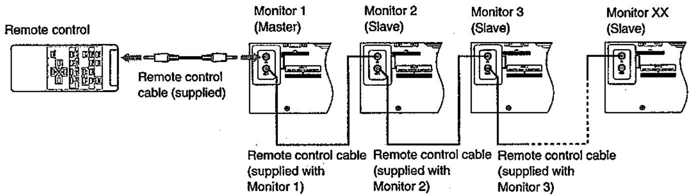
```
<all reset>
Are you sure?
"YES" then press ► key.
"NO"  then press MENU key
```

4 **Press ► again to reset all the settings.**
To cancel the reset, press MENU/EXIT (or MENU on the Monitor).

Serial Connections and Operations

When the Monitors are serially connected, you can control all of them at the same time (simultaneous operation) or control them one by one separately (individual operation).
For individual operation, you have to assign an ID number to each of the Monitors.
For the purpose of explanation, we will call Monitor 1 as a Master and Monitor 2 and subsequent Monitors as Slaves.

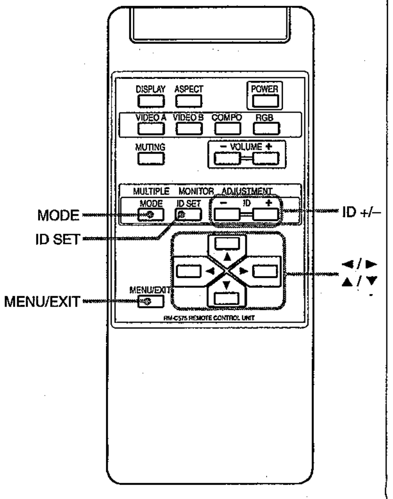
Connecting the Remote Control Cables


Remote control
Remote control cable (supplied)
Monitor 1 (Master)
Monitor 2 (Slave)
Monitor 3 (Slave)
Monitor XX (Slave)
Remote control cable (supplied with Monitor 1)
Remote control cable (supplied with Monitor 2)
Remote control cable (supplied with Monitor 3)

Notes:
- Do not connect the last monitor to Monitor 1.
- When operating with a wired remote control, connect it to the REMOTE CONTROL input terminal of Monitor 1.
- When Monitors are serially connected, Monitor 2 and subsequent Monitors cannot be directly controlled with a wireless remote control.
- Even after the Monitors are serially connected, each of them can be operated using the buttons on the Monitor. However, you cannot perform simultaneous or individual operation even with the buttons on Master Monitor.

Assigning ID Numbers

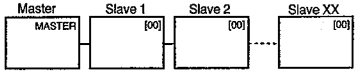
- When performing simultaneous or individual operation, use the remote control.


DISPLAY
ASPECT
POWER
VIDEO A
VIDEO B
COMPO
RGB
MUTING
– VOLUME +
MULTIPLE
MONITOR
ADJUSTMENT
MODE
ID SET
– ID +
MENU/EXIT
RM-C575 REMOTE CONTROL UNIT
MODE
ID SET
MENU/EXIT
ID +/–
◄/►
▲/▼

The following procedure should be performed slowly and securely.

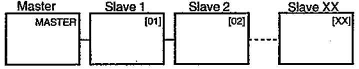
1 **Turn on all the connected Monitors.**

2 **Press MODE.**


Master
Slave 1
Slave 2
Slave XX
MASTER
[00]
[00]
[00]

On Master Monitor screen, "MASTER" is displayed, and "[00]" is displayed on all of Slave Monitor screens.

3 **Press ID SET.**


Master
Slave 1
Slave 2
Slave XX
MASTER
[01]
[02]
[XX]

On the Slave Monitor screens, "[01]", "[02]", "[03]", — and so on will be displayed in the order of connection.

Notes:
- When a maximum number of 20 Monitors are connected, it will take approx. 10 seconds for ID numbers to be displayed on all the screens.
- If "[00]" is displayed on all the Monitor screens or if some of the Monitors have no indication in step 1, press MODE to turn off the indications on all Monitor screens, and then press MODE again.

Operating the Monitors Simultaneously

- Check that no ID number is shown on the screens. If any ID numbers are shown, press MODE to erase them.
- The following procedure should be performed slowly and securely.

Example: When adjusting "CONTRAST":

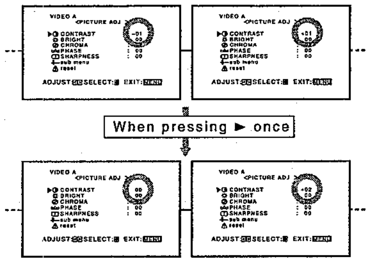
1 **Press MENU/EXIT to display the Main Menu.**
The Main Menus appear on all the connected Monitors' screens.

2 **Press ▲/▼ to move the cursor (►) to "PICTURE ADJ."**

3 **Press ► to display the Picture Adjustment Menu.**
The Picture Adjustment Menus appear on all the connected Monitors' screens.

4 **Press ▲/▼ to move the cursor (►) to "CONTRAST."**

5 **Press ◄/► to make an adjustment.**
At this time, if the Monitors have different "CONTRAST" settings, the adjustment is made, based on the different settings.

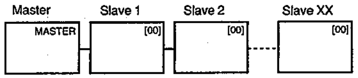

VIDEO A
<PICTURE ADJ>
CONTRAST -01
BRIGHT 00
CHROMA
PHASE : 00
SHARPNESS : 00
sub menu
reset
ADJUST: SELECT: EXIT: MENU
VIDEO A
<PICTURE ADJ>
CONTRAST +01
BRIGHT 00
CHROMA
PHASE : 00
SHARPNESS : 00
sub menu
reset
ADJUST: SELECT: EXIT: MENU
When pressing ► once
VIDEO A
<PICTURE ADJ>
CONTRAST 00
BRIGHT 00
CHROMA
PHASE : 00
SHARPNESS : 00
sub menu
reset
ADJUST: SELECT: EXIT: MENU
VIDEO A
<PICTURE ADJ>
CONTRAST +02
BRIGHT 00
CHROMA
PHASE : 00
SHARPNESS : 00
sub menu
reset
ADJUST: SELECT: EXIT: MENU

6 **Press MENU/EXIT twice to exit from the menu operations.**

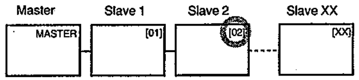
Operating the Monitors Individually

The following procedure should be performed slowly and securely.

1 **Press MODE to display the ID numbers on all the connected Monitors' screens.**


Master
Slave 1
Slave 2
Slave XX
MASTER
[00]
[00]
[00]

2 **Press ID +/– to select the Monitor you want to operate.**
Example: To select "[02]":
Press ID + twice.
Slave 2's ID number "[02]" is highlighted.


Master
Slave 1
Slave 2
Slave XX
MASTER
[01]
[02]
[XX]

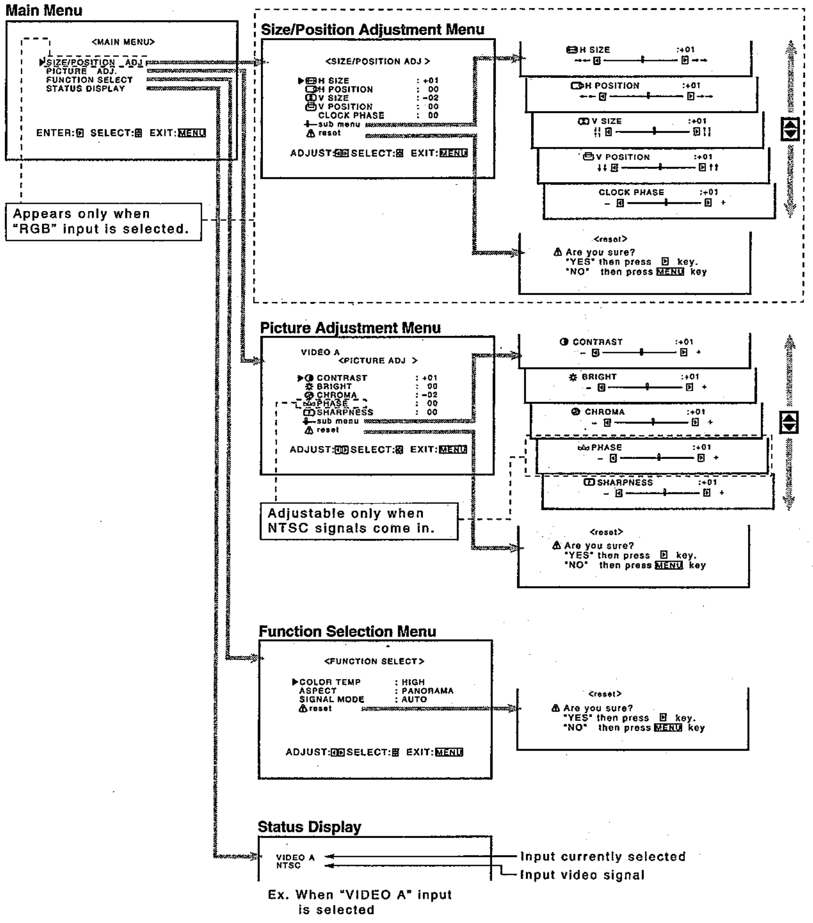
3 **Perform any desired operations, such as adjusting menu items.**

Notes:
- If "[00]" is displayed on all the Monitor screens or if some of the Monitor screens have no indication in step 1, press MODE to turn off the indications on all screens, and then press MODE again.
- If the ID number of the Monitor selected in step 2 is not highlighted or if the ID numbers of more than one Monitor are highlighted, press MODE to clear the ID numbers, and then start the procedure again from the beginning.

ENGLISH

Menu Classifications

Main Menu


Main Menu
<MAIN MENU>
▶SIZE/POSITION ADJ.
PICTURE ADJ.
FUNCTION SELECT
STATUS DISPLAY
ENTER: SELECT: EXIT:MENU
Appears only when "RGB" input is selected.
Size/Position Adjustment Menu
<SIZE/POSITION ADJ >
▶H SIZE : +01
H POSITION : 00
V SIZE : -02
V POSITION : 00
CLOCK PHASE : 00
sub menu
reset
ADJUST: SELECT: EXIT:MENU
H SIZE :+01
H POSITION :+01
V SIZE :+01
V POSITION :+01
CLOCK PHASE :+01
<reset>
Are you sure?
"YES" then press key.
"NO" then press MENU key
Picture Adjustment Menu
VIDEO A
<PICTURE ADJ >
▶CONTRAST : +01
BRIGHT : 00
CHROMA : -02
PHASE : 00
SHARPNESS : 00
sub menu
reset
ADJUST: SELECT: EXIT:MENU
CONTRAST :+01
BRIGHT :+01
CHROMA :+01
PHASE :+01
SHARPNESS :+01
Adjustable only when NTSC signals come in.
<reset>
Are you sure?
"YES" then press key.
"NO" then press MENU key
Function Selection Menu
<FUNCTION SELECT>
▶COLOR TEMP : HIGH
ASPECT : PANORAMA
SIGNAL MODE : AUTO
reset
ADJUST: SELECT: EXIT:MENU
<reset>
Are you sure?
"YES" then press key.
"NO" then press MENU key
Status Display
VIDEO A
NTSC
Input currently selected
Input video signal
Ex. When "VIDEO A" input is selected

SIZE/POSITION ADJ.* : See page 14.

H.SIZE*	Adjusts the horizontal screen size.
H. POSITION*	Adjusts the horizontal screen position.
V. SIZE*	Adjusts the vertical screen size.
V.POSITION*	Adjusts the vertical screen position.
CLOCK PHASE*	Adjusts to eliminate stripes or flickering. Normally, no adjustment is needed.
sub menu	Displays the fine adjustment bar.
reset	Resets Size/position Adjustment Menu settings to defaults.

PICTURE ADJ. (Picture adjustment): See page 15.

CONTRAST	Adjusts the contrast of the picture.
BRIGHT	Adjusts the brightness of the picture.
CHROMA**	Adjusts the color density of the picture.
PHASE***	Adjusts the color phase.
SHARPNESS	Adjusts the outlines of the picture.
sub menu	Displays the fine adjustment bar.
reset	Resets the Picture Adjustment Menu settings to defaults.

FUNCTION SELECT: See pages 16 to 19.

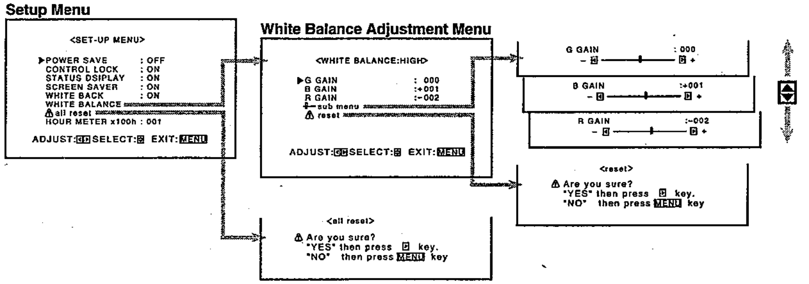
COLOR TEMP.	Adjusts the color temperature. Use when the picture is reddish or bluish.
ASPECT	Selects the horizontal to vertical ratio of the screen.
SIGNAL MODE	• Selects a color system (NTSC, PAL, SECAM) when VIDEO A or VIDEO B input is selected. • Selects a scan system (480i, 576i, 480p, 720p, 1080i) when COMPONENT input is selected. Normally, set to "AUTO."
reset	Resets the Function Selection Menu settings to defaults.

* Adjustment is only possible when RGB input is selected.

** Adjustment is not possible when RGB input is selected.

*** Adjustment is only possible when viewing NTSC signal through the VIDEO A or B terminal.

Setup Menu


Setup Menu
<SET-UP MENU>
▶POWER SAVE : OFF
CONTROL LOCK : ON
STATUS DSIPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
WHITE BALANCE
all reset
HOUR METER x100h : 001
ADJUST: SELECT: EXIT:MENU
White Balance Adjustment Menu
<WHITE BALANCE:HIGH>
▶G GAIN : 000
B GAIN :+001
R GAIN :-002
sub menu
reset
ADJUST: SELECT: EXIT:MENU
G GAIN : 000
B GAIN :+001
R GAIN :-002
<reset>
Are you sure?
"YES" then press key.
"NO" then press MENU key
<all reset>
Are you sure?
"YES" then press key.
"NO" then press MENU key

POWER SAVE	Sets the length of time before standby mode is automatically assumed after the input signal has stopped being supplied. (See page 21.)
CONTROL LOCK	Sets the Monitor so that it cannot be operated with the buttons on itself. (See page 21.)
STATUS DISPLAY	Sets if you want the input terminal and the type of signal to be indicated on the screen just after inputs are switched. (See page 22.)
SCREEN SAVER	Sets a screen saver. (See page 23.)
WHITE BACK	Use to eliminate afterimages on the screen. (See page 22.)
WHITE BALANCE	Adjusts R GAIN, G GAIN and B GAIN finely each for "HIGH" and "LOW" settings of the color temperature. (See page 17.)
all reset	Resets the Setup Menu settings to defaults. (See page 23.)
HOUR METER	Use to confirm the hours of use. (See page 21.)

Troubleshooting

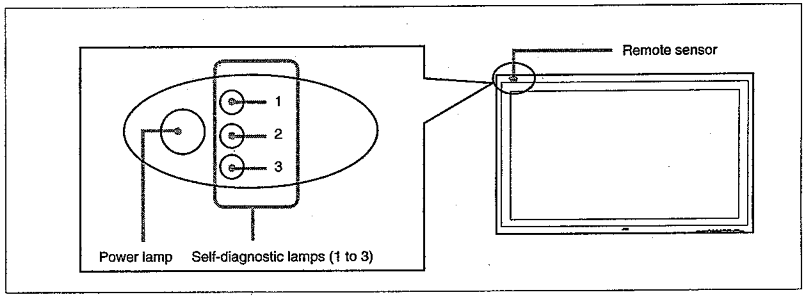
Solutions to common problems related to the Monitor are described here. If none of the solutions presented here solves the problem, unplug the Monitor and consult an authorized dealer or service center.

Symptom	Probable cause	Corrective action	Page
Power is not supplied.	• Is the power cord disconnected?	• Insert the power cord (plug) firmly.	11
	• Is the MAIN POWER switch turned on?	• Turn on the MAIN POWER switch.	12
Video image does not appear, or audio sound does not occur.	• Is the correct input selected?	• Select the correct input by pressing VIDEO A, VIDEO B, COMPO., and RGB on the remote control (or INPUT on the Monitor).	12
	• Are connected devices connected correctly?	• Connect connected devices correctly.	11
	• Are signals being supplied from the connected devices?	• Set connected devices correctly.	11
	• Are input signals (scanning frequency, etc.) appropriate?	• Check if the signal is appropriate (scanning frequency, etc.), and input the appropriate signal.	10
	• Is brightness adjusted correctly?	• Adjust brightness on the menu.	15
	• Is volume set at minimum?	• Adjust volume.	12
	• Are the diagnostic lamps turned on?	• Refer to "Self-diagnostic indication," and take an appropriate action.	29
The picture through the RGB terminal is blurred.	———	• Adjust CLOCK PHASE using the menu.	14
Color is abnormally dark or bright.	• Is brightness adjusted correctly?	• Adjust BRIGHT (brightness) using the menu.	15
Color is poor or unstable.	• Is picture quality (color density, etc.) adjusted correctly?	• Adjust PICTURE using the menu.	15
	• Is the correct broadcast system (color system) selected?	• Set SIGNAL MODE (color system) to "AUTO."	19
	• Are signals (scanning frequency, etc.) to connected devices appropriate?	• Check if the signal is appropriate (scanning frequency, etc.), and input the appropriate signal.	10
The picture is cut or shifted toward one side.	• Is the size or position of the screen adjusted properly?	• Adjust H.SIZE, V.SIZE, H.POSITION or V.POSITION using the menu.	14
The remote control does not work.	• Are the batteries correctly set?	• Insert batteries correctly, observing the polarities (⊕ and ⊖).	8
	• Are the batteries exhausted?	• Replace with new batteries.	8
	• Is there any object blocking the path between the remote control and remote sensor?	• Remove any blocking object.	—
	• Is the Monitor too far away from you?	• Move toward the Monitor, then operate the remote control.	—
	• Is the Monitor connected serially to another Monitor (Serial Connection)?	• Only Master Monitor can be controlled by the remote control when connected serially.	24
The buttons on the Monitor do not work.	• Is the Control Lock function in use?	• Set the Control Lock function to "OFF" using the menu.	21

ENGLISH

Self-diagnostic Indication

The screen monitor may automatically turn off and self-diagnostic lamps next to the power lamp may light or flash.
When something abnormal occurs with the Monitor, this function informs you of the condition of the Monitor with self-diagnostic lamps, allowing for smooth service work.
If the self-diagnostic lamps glow or flash in red, use the following procedure before consulting the dealer where you purchased the Monitor.



1 Check which lamps are lighting or flashing.

On the Self-diagnostic Report Sheet (below), check the box next to "Lights" or "Flashes" of the corresponding lamp or lamps.

- Depending on a particular case, only one lamp may light or flash, or all three lamps may do so.

2 Turn off the MAIN POWER switch on the back of the Monitor.

3 Unplug the power cord.

4 Call your dealer and tell which lamps are lighting or flashing. (Copy and fax the Self-diagnostic Report Sheet below.)

Note:

- If you turn on the Monitor soon after turning it off (or after recovering from a brief power interruption), the self-diagnostic lamps may light (or flash), and no image may appear on the screen. In this case, turn off the Monitor again, wait for about 10 seconds, then turn it on again. If no self-diagnostic lamps light or flash, you can operate and use the Monitor as usual.

Store name where you purchased the Monitor

To

Model Name:
Plasma Display Monitor
GD-V4200PZW/GD-V4200PZW-G

Self-diagnostic Report Sheet

The self-diagnostic lamps light or flash as listed on the following table. Please give me immediate advice or service if necessary.

Self-diagnostic lamps			
NO.	Lamp position	Conditions	
1	Upper	☐ Lights	☐ Flashes
2	Middle	☐ Lights	☐ Flashes
3	Lower	☐ Lights	☐ Flashes

Your Name:	
Telephone No.:	
Address:	

Specifications

General:

Model name	GD-V4200PZW/GD-V4200PZW-G
Frame colour	GD-V4200PZW : Silver GD-V4200PZW-G : Gray
Screen size	Type 42 wide format
Aspect ratio	16 : 9 (Wide format)
Mass	36.0 kg (79.2 lbs)
External dimensions	103.5 x 64.0 x 8.9 cm (40 3/4 x 25 1/4 x 3 5/8 inches) (W x H x D)
Power requirements	AC 120 V/230 V, 50 Hz /60 Hz
Power consumption	390W
Effective screen size	92.1 x 51.8 cm (36 3/8 x 20 1/2 inches) (W x H), 105.7 cm (41 5/8 inches) diagonally
Number of pixels displayed	853 (H) x 480 (V)
Number of colors displayed	16.77 million (256 colors for each of RGB)
Compatible systems	• VIDEO A, B input: NTSC, PAL, SECAM • COMPONENT input: 480i, 576i, 480p, 720p, 1080i
Audio output	INTERNAL: 2W + 2W (TYP at impedance 8Ω) EXTERNAL: 3W + 3W (TYP at impedance 6Ω)
Speakers	2 pcs., built-in (4 cm x 7 cm oval-shaped, impedance 8Ω)
Operating conditions	Temperature: 0°C to 40°C Relative humidity: 20% to 80%

Input/output terminals

VIDEO A	• Y/C input	Y/C terminal x 1	Y : 1V(p-p)/75Ω C : 0.286V(p-p)/75Ω for NTSC C : 0.3V(p-p)/75Ω for PAL/SECAM
	• Video input	BNC terminal x 1	1V(p-p)/75Ω
	• Video output	BNC terminal x 1	1V(p-p)/75Ω
	• Audio input	Pin jack terminal x 2 (L/R), 500mV(rms)/22 kΩ or over	
VIDEO B	• Y/C input	Y/C terminal x 1	Y : 1V(p-p)/75Ω C : 0.286V(p-p)/75Ω for NTSC C : 0.3V(p-p)/75Ω for PAL/SECAM
	• Video input	BNC terminal x 1	1V(p-p)/75Ω
	• Video output	Pin jack terminal x 1	1V(p-p)/75Ω
	• Audio input	Pin jack terminal x 2 (L/R), 500mV(rms)/22kΩ or over	
COMPONENT input	• BNC terminal x 3	Y : 1V(p-p)/75Ω P_B/B-Y : 0.7V(p-p)/75Ω P_R/R-Y : 0.7V(p-p)/75Ω	
RGB input	• D-sub 3 line 15-pin terminal x 1	Video signal : 0.7V(p-p)/75Ω Sync signal : TTL level or 0.3V(p-p)/75Ω	
	• Audio input	Pin jack terminal x 2 (L/R), 500mV(rms)/22kΩ or over	
RS232C input	D-sub 9-pin terminal x 1		
SPEAKER OUT terminal	Impedance 6Ω to 16Ω		

Options (not supplied)

Stand Unit	TS-C420P1W
Wall Mounting Unit	TS-C420P2W
Ceiling suspension Unit	TS-C420P3W

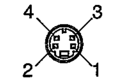
Specifications and design are subject to change without notice.

Notice on transportation

This Monitor is precision equipment and needs dedicated packing material for transportation.
Never use any packing material supplied from other than JVC or JVC-authorized dealers.

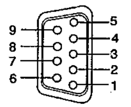
Pin assignment (Specifications for terminals)

- Y/C terminal



Pin number	Signal name
1	GND (Y)
2	GND (C)
3	Y
4	C

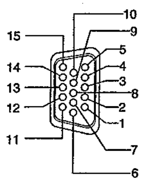
- RS-232C terminal



Note:
- This is a female type connector.

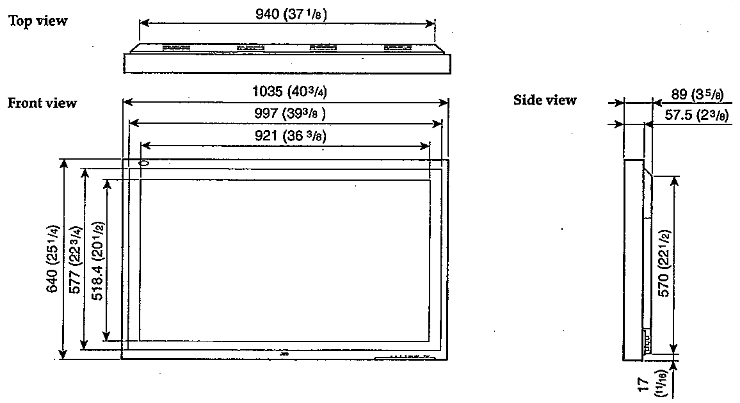
Pin number	Signal name	Pin number	Signal name
1	DCD	6	DSR
2	RD	7	RTS
3	TD	8	CTS
4	DTR	9	RI
5	GND		

- RGB Input Terminal



Pin number	Signal name	Pin number	Signal name
1	Red	9	N/C
2	Green	10	GND
3	Blue	11	GND
4	N/C	12	N/C
5	GND	13	H.SYNC
6	GND	14	V.SYNC
7	GND	15	N/C
8	GND	External	GND

Dimensions



GD-V4200PZW / GD-V4200PZW-G STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	:Colour bar signal
(2)Setting positions of each knob/button and variable resistor	:Original setting position when shipped
(3)Internal resistance of tester	:DC 20kΩ/V
(4)Oscilloscope sweeping time	:H ⇒ 20µS/div :V ⇒ 5mS/div :Others ⇒ Sweeping time is specified
(5)Voltage values	:All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

●In the PW board :R1209→R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

●Resistance value

No unit	:[Ω]
K	:[KΩ]
M	:[MΩ]

●Rated allowable power

No indication	:1/10[W]
Others	:As specified

●Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflammble resistor
FR	:Fusible resistor

*Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

●Capacitance value

1 or higher	:[pF]
less than 1	:[µF]

●Withstand voltage

No indication	:DC50[V]
AC indicated	:AC withstand voltage [V]
Others	:DC withstand voltage [V]

*Electrolytic Capacitors
47/50[Example]:Capacitance value [µF]/withstand voltage[V]

●Type

No indication	:Ceramic capacitor
MY	:Mylar capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capacitor

(3)Coils

No unit	:[µH]
Others	:As specified

(4)Power Supply

═══════	:B1
▬▬▬▬	:B2(12V)
▬□▬□	:9V
□□□□	:5V

*Respective voltage values are indicated

(5)Test point

⊙	:Test point
○	:Only test point display

(6)Connecting method

▭	:Connector
○	:Wrapping or soldering
→≻ →⊁	:Receptacle

(7)Ground symbol

⊥	:LIVE side ground
⫫	:ISOLATED(NEUTRAL) side ground
⏚	:EARTH ground
▽	:DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⫫) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◇Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

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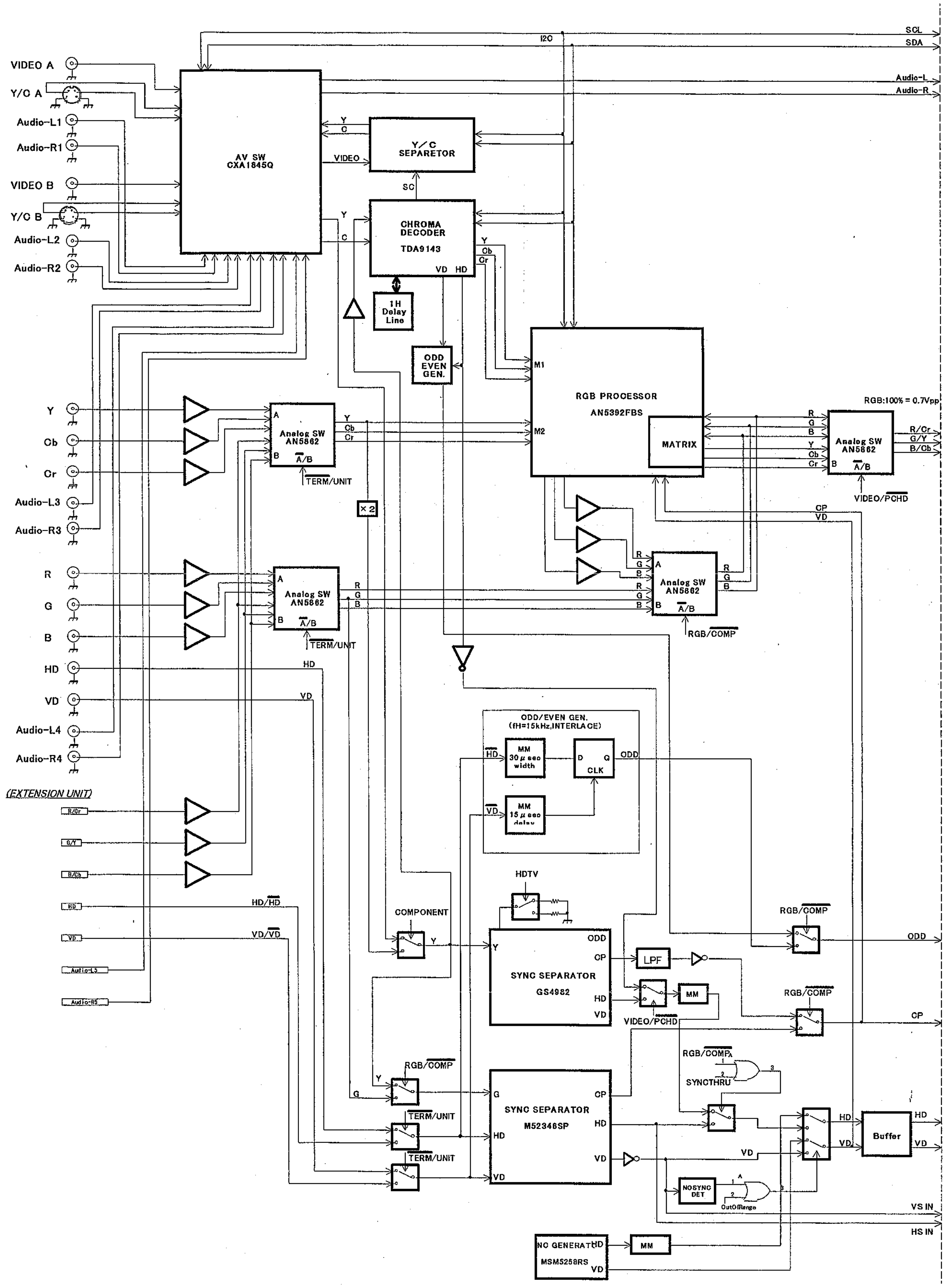
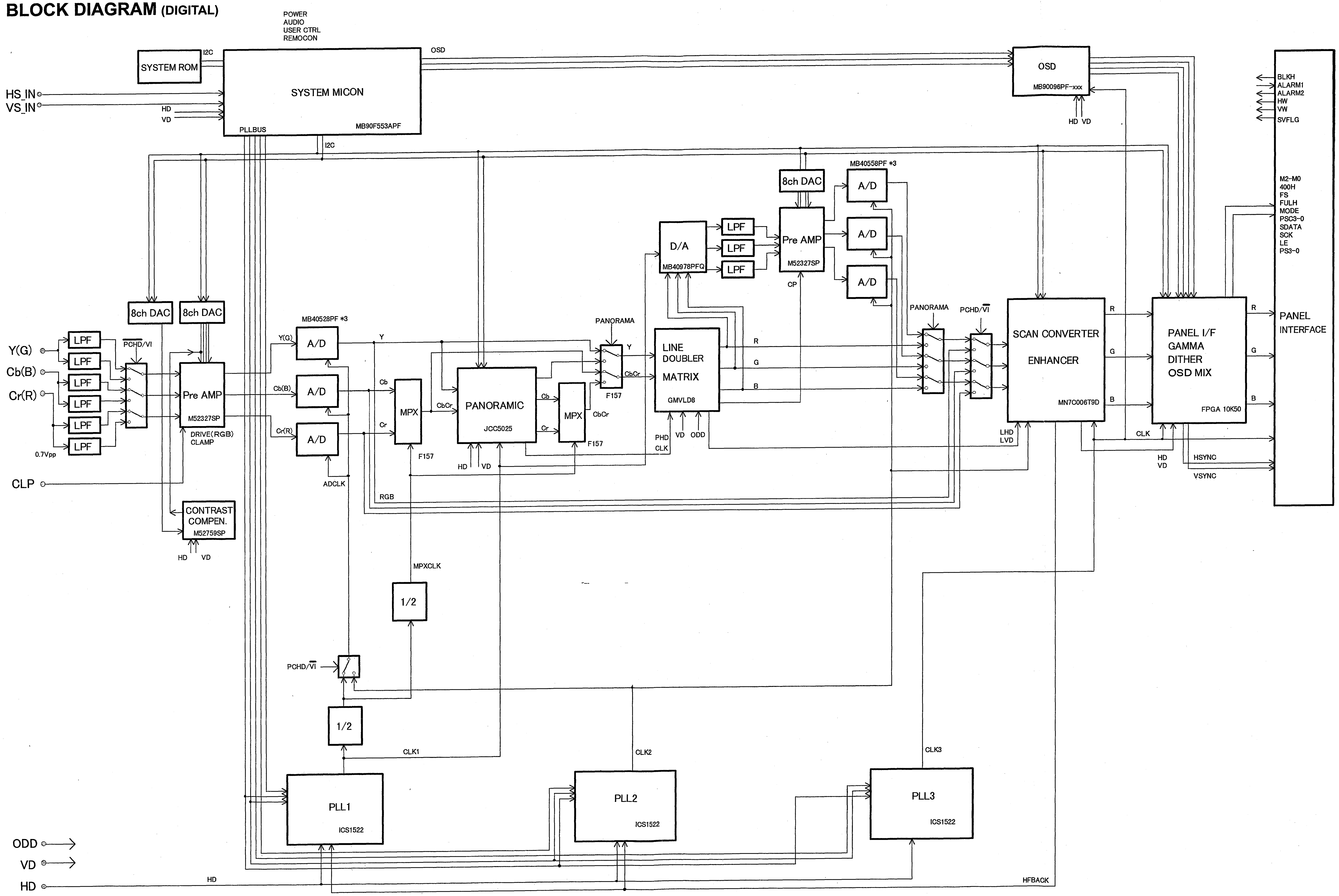
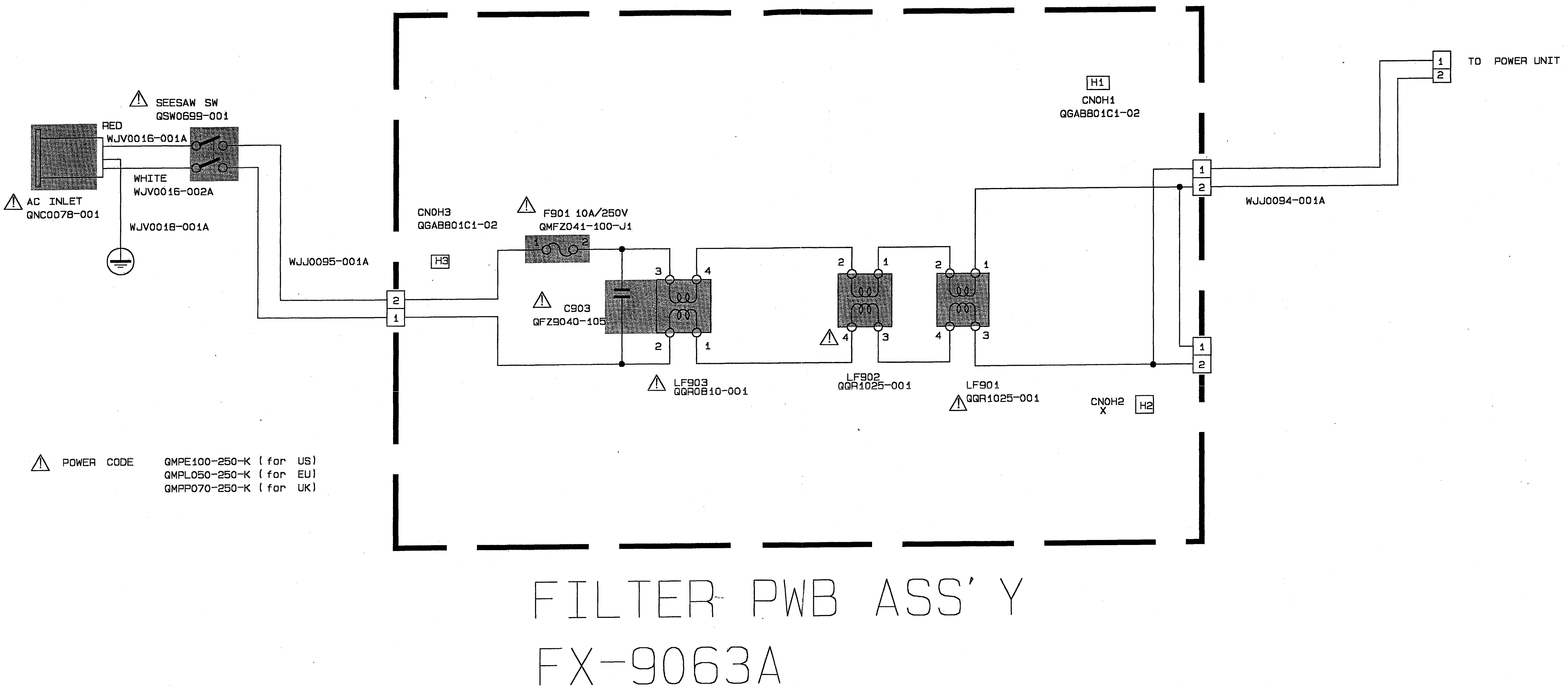
BLOCK DIAGRAM (ANALOG)


SCL
SDA
I2C
VIDEO A
Y/C A
Audio-L1
Audio-R1
VIDEO B
Y/C B
Audio-L2
Audio-R2
AV SW
CXA1845Q
Audio-L
Audio-R
Y
C
VIDEO
Y/C SEPARETOR
SC
CHROMA DECODER
TDA9143
Y
Cb
Cr
VD HD
1H Delay Line
ODD EVEN GEN.
RGB PROCESSOR
AN5392FBS
M1
M2
MATRIX
RGB:100% = 0.7Vpp
R
G
B
Y
Cb
Cr
Analog SW
AN5862
A/B
R/Cr
G/Y
B/Cb
VIDEO/PCHD
CP
VD
Y
Cb
Cr
Audio-L3
Audio-R3
Analog SW
AN5862
TERM/UNIT
×2
R
G
B
HD
VD
Audio-L4
Audio-R4
Analog SW
AN5862
TERM/UNIT
Analog SW
AN5862
RGB/COMP
(EXTENSION UNIT)
R/Cr
G/Y
B/Cb
HD
VD
Audio-L5
Audio-R5
HD/HD
VD/VD
ODD/EVEN GEN.
(fH=15kHz,INTERLACE)
HD
MM
30 μ sec width
D Q
CLK
ODD
VD
MM
15 μ sec delay
HDTV
COMPONENT
Y
SYNC SEPARATOR
GS4982
ODD
CP
HD
VD
LPF
MM
VIDEO/PCHD
RGB/COMP
ODD
RGB/COMP
CP
RGB/COMPA
SYNCTHRU
RGB/COMP
G
TERM/UNIT
TERM/UNIT
SYNC SEPARATOR
M52346SP
CP
HD
VD
NOSYNC DET
OutOfRange
HD
Buffer
HD
VD
VD
VS IN
HS IN
NC GENERATOR
MSM5258RS
HD
VD
MM

BLOCK DIAGRAM (DIGITAL)


POWER
AUDIO
USER CTRL
REMOCON
SYSTEM ROM
I2C
SYSTEM MICON
MB90F553APF
PLLBUS
I2C
OSD
HS_IN
VS_IN
HD
VD
OSD
MB90096PF-xxx
HD VD
BLKH
ALARM1
ALARM2
HW
VW
SVFLG
M2-M0
400H
FS
FULH
MODE
PSC3-0
SDATA
SCK
LE
PS3-0
PANEL
INTERFACE
Y(G)
Cb(B)
Cr(R)
LPF
LPF
LPF
LPF
LPF
LPF
0.7Vpp
PCHD/VI
8ch DAC
8ch DAC
Pre AMP
M52327SP
DRIVE(RGB)
CLAMP
CLP
CONTRAST
COMPEN.
M52759SP
HD VD
MB40528PF *3
Y(G)
A/D
Cb(B)
A/D
Cr(R)
A/D
ADCLK
Y
Cb
Cr
MPX
F157
CbCr
PANORAMIC
JCC5025
HD VD
Cb
Cr
MPX
CbCr
F157
RGB
PANORAMA
Y
CbCr
F157
LINE
DOUBLER
MATRIX
GMVLD8
PHD
CLK
VD ODD
R
G
B
D/A
MB40978PFQ
LPF
LPF
LPF
8ch DAC
Pre AMP
M52327SP
CP
MB40558PF *3
A/D
A/D
A/D
PANORAMA
PCHD/VI
SCAN CONVERTER
ENHANCER
MN7C006T9D
LHD
LVD
R
G
B
PANEL I/F
GAMMA
DITHER
OSD MIX
FPGA 10K50
CLK
HD
VD
HSYNC
VSYNC
R
G
B
MPXCLK
1/2
PCHD/VI
1/2
CLK1
CLK2
CLK3
PLL1
ICS1522
PLL2
ICS1522
PLL3
ICS1522
ODD
VD
HD
HD
HFBACK

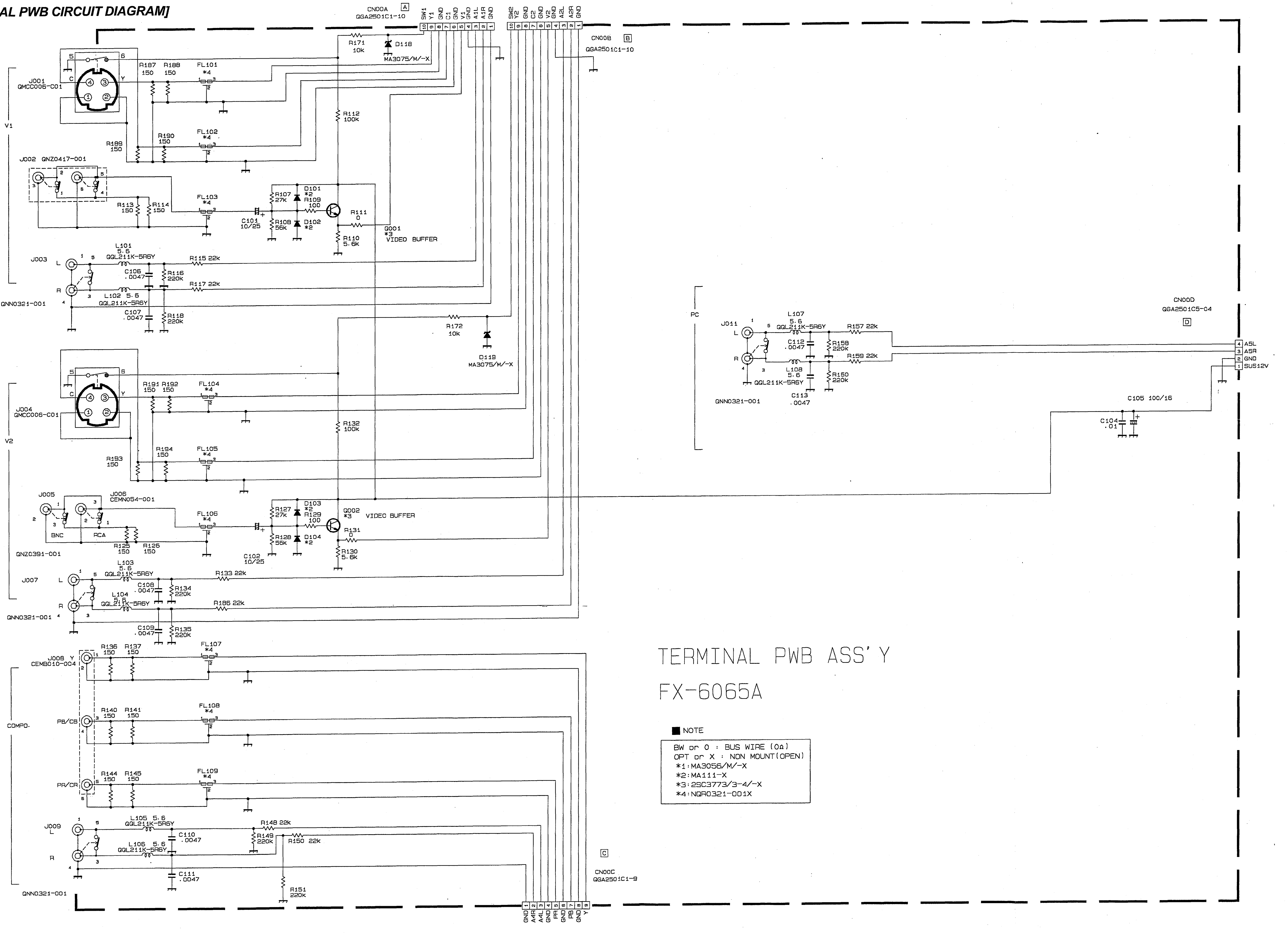
CIRCUIT DIAGRAMS *[FILTER PWB CIRCUIT DIAGRAM]*


⚠ SEESAW SW
QSW0699-001
RED
WJV0016-001A
WHITE
WJV0016-002A
⚠ AC INLET
QNC0078-001
WJV0018-001A
WJJ0095-001A
CN0H3
QGAB801C1-02
H3
⚠ F901 10A/250V
QMFZ041-100-J1
⚠ C903
QFZ9040-105
⚠ LF903
QQR0810-001
LF902
QQR1025-001
LF901
⚠ QQR1025-001
H1
CN0H1
QGAB801C1-02
CN0H2
X
H2
WJJ0094-001A
TO POWER UNIT
⚠ POWER CODE
QMPE100-250-K (for US)
QMPL050-250-K (for EU)
QMPP070-250-K (for UK)
FILTER PWB ASS'Y
FX-9063A

■ NOTE

BW or O : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)

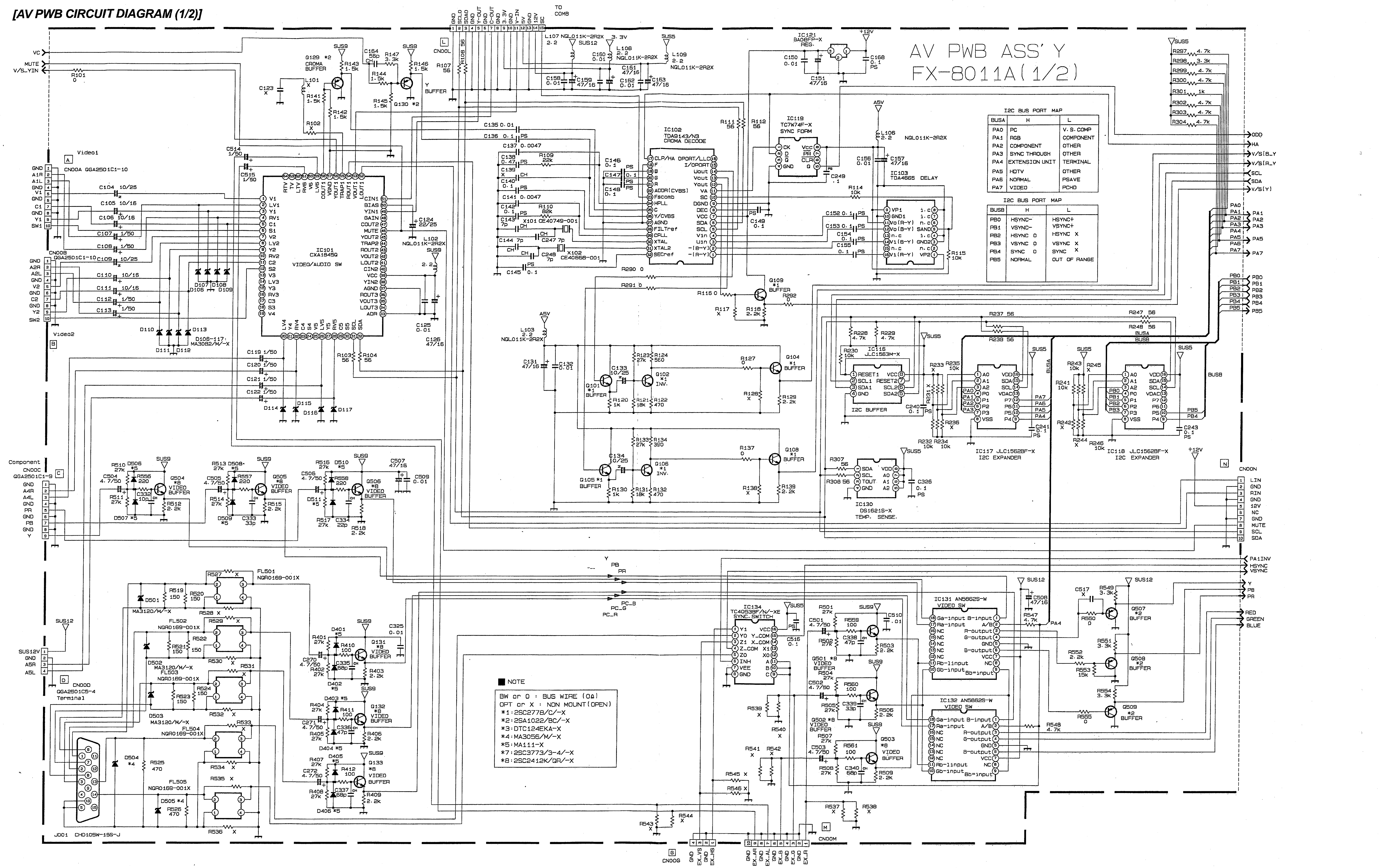
[TERMINAL PWB CIRCUIT DIAGRAM]


CN00A A
QGA2501C1-10
SW1 Y1 GND C1 GND V1 GND A1L A1R GND
SW2 Y2 GND C2 GND V2 GND A2L A2R GND
CN00B B
QGA2501C1-10
R171 10K
D118 MA3075/M/-X
J001 QMCC006-C01
R187 150
R188 150
FL101 *4
V1
R112 100K
R189 150
R190 150
FL102 *4
J002 QNZ0417-001
R113 150
R114 150
FL103 *4
C101 10/25
R107 27K
R108 56K
D101 *2
D102 *2
R109 100
Q001 *3
VIDEO BUFFER
R111 0
R110 5.6K
J003
L
R
QNN0321-001
L101 5.6 QQL211K-5R6Y
R115 22K
C106 .0047
R116 220K
R117 22K
L102 5.6 QQL211K-5R6Y
C107 .0047
R118 220K
R172 10K
D119 MA3075/M/-X
J004 QMCC006-C01
V2
R191 150
R192 150
FL104 *4
R132 100K
R193 150
R194 150
FL105 *4
J005
J006 CEMN054-001
BNC
RCA
QNZ0391-001
R125 150
R126 150
FL106 *4
C102 10/25
R127 27K
R128 56K
D103 *2
D104 *2
R129 100
Q002 *3
VIDEO BUFFER
R131 0
R130 5.6K
J007
L103 5.6 QQL211K-5R6Y
C108 .0047
R134 220K
R133 22K
L104 5.6 QQL211K-5R6Y
R186 22K
C109 .0047
R135 220K
J008 Y CEMB010-004
R136 150
R137 150
FL107 *4
COMPO.
PB/CB
R140 150
R141 150
FL108 *4
PR/CR
R144 150
R145 150
FL109 *4
J009
L105 5.6 QQL211K-5R6Y
R148 22K
C110 .0047
R149 220K
R150 22K
L106 5.6 QQL211K-5R6Y
C111 .0047
R151 220K
QNN0321-001
C
CN00C
QGA2501C1-9
GND A4R A4L GND PR GND PB GND Y
PC
J011
L107 5.6 QQL211K-5R6Y
R157 22K
C112 .0047
R158 220K
R159 22K
L108 5.6 QQL211K-5R6Y
R160 220K
C113 .0047
QNN0321-001
CN00D
QGA2501C5-04
D
A5L
A5R
GND
SUS12V
C105 100/16
C104 .01
TERMINAL PWB ASS'Y
FX-6065A

■ NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:MA3056/M/-X
*2:MA111-X
*3:2SC3773/3-4/-X
*4:NQR0321-001X

[AV PWB CIRCUIT DIAGRAM (1/2)]


AV PWB ASS'Y
FX-8011A(1/2)
TO COMB
IC101 CXA1845Q VIDEO/AUDIO SW
IC102 TDA9143/N3 CROMA DECODE
IC103 TDA4665 DELAY
IC119 TC7W74F-X SYNC FORM
IC121 BA08FP-X REG.
IC116 JLC1563M-X I2C BUFFER
IC117 JLC1562BF-X I2C EXPANDER
IC118 JLC1562BF-X I2C EXPANDER
IC130 DS1621S-X TEMP. SENSE.
IC131 AN5862S-W VIDEO SW
IC132 AN5862S-W VIDEO SW
IC134 TC4053BF/N/-XE SYNC. SWITCH
CN00A QGA2501C1-10 Video1
CN00B QGA2501C1-10 Video2
CN00C QGA2501C1-9 Component
CN00D QGA2501C5-4 Terminal
CN00G
CN00M
CN00N
CN00L
J001 CHD105W-15S-J
VC
MUTE
V/S_YIN
ODD
HA
V/S(B_Y
V/S(R_Y
SCL
SDA
V/S(Y)
PA1INV
HSYNC
VSYNC
RED
GREEN
BLUE
BUSA
BUSB

I2C BUS PORT MAP

BUSA	H	L
PA0	PC	V.S.COMP
PA1	RGB	COMPONENT
PA2	COMPONENT	OTHER
PA3	SYNC THROUGH	OTHER
PA4	EXTENSION UNIT	TERMINAL
PA5	HDTV	OTHER
PA6	NORMAL	PSAVE
PA7	VIDEO	PCHD

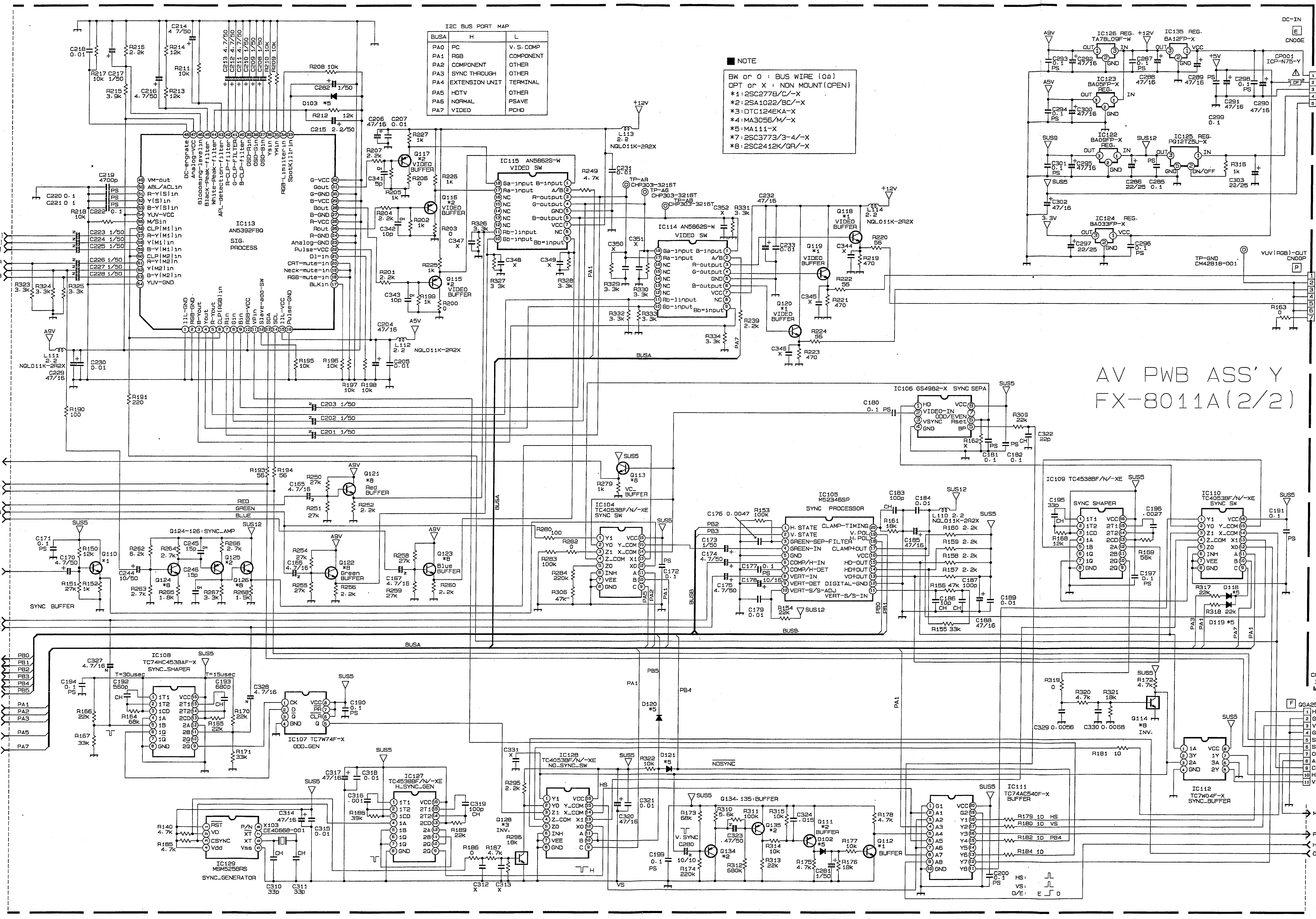
I2C BUS PORT MAP

BUSB	H	L
PB0	HSYNC-	HSYNC+
PB1	VSYNC-	VSYNC+
PB2	HSYNC O	HSYNC X
PB3	VSYNC O	VSYNC X
PB4	SYNC O	SYNC X
PB5	NORMAL	OUT OF RANGE

■ NOTE

BW or O : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:DTC124EKA-X
*4:MA3056/M/-X
*5:MA111-X
*7:2SC3773/3-4/-X
*8:2SC2412K/QR/-X

[AV PWB CIRCUIT DIAGRAM (2/2)]


AV PWB ASS' Y
FX-8011A(2/2)
IC113 AN5392FBQ SIG. PROCESS
IC115 AN5862S-W VIDEO SW
IC114 AN5862S-W VIDEO SW
IC106 GS4982-X SYNC SEPA
IC105 M52346SP SYNC PROCESSOR
IC104 TC4053BF/N/-XE SYNC SW
IC109 TC4538BF/N/-XE SYNC SHAPER
IC110 TC4053BF/N/-XE SYNC SW
IC108 TC74HC4538AF-X SYNC_SHAPER
IC107 TC7W74F-X ODD_GEN
IC127 TC4538BF/N/-XE H_SYNC_GEN
IC128 TC4053BF/N/-XE NO_SYNC_SW
IC129 MSM5256RS SYNC_GENERATOR
IC111 TC74AC540F-X BUFFER
IC112 TC7W04F-X SYNC_BUFFER
IC126 REG. TA78L09F-W
IC135 REG. BA12FP-X
IC123 BA05FP-X REG.
IC122 BA09FP-X REG.
IC125 REG. RQ12TZ5U-X
IC124 BA033FP-X REG.
Q124-126:SYNC_AMP
Q134, 135:BUFFER
SYNC BUFFER
DC-IN
CN00E
CP001 ICP-N75-Y
13V
5V
GND
STB13V
STB5V
YUV(RGB)-OUT
CN00P
G(Y)
GND
B(U)
GND
R(V)
GND
PCMODE
CN00F
I2C &SYNC-OUT
QGA2501C1-11
HS
GND
VS
GND
SCL
SDA
ODD
AMUTE
CLP
HS_IN
VS_IN
V/S[R_Y]
V/S[Y]
V/S[B_Y]
PR
Y
PB
VC
SDA
SCL
RED
GREEN
BLUE
V/S_YIN
HSYNC
VSYNC
PB0
PB1
PB2
PB3
PB4
PB5
PA1
PA2
PA3
PA5
PA7
BUSA
BUSB
MUTE
PA1INV
HA
ODD
TP-GND CM4281B-001
HS: VS: O/E:

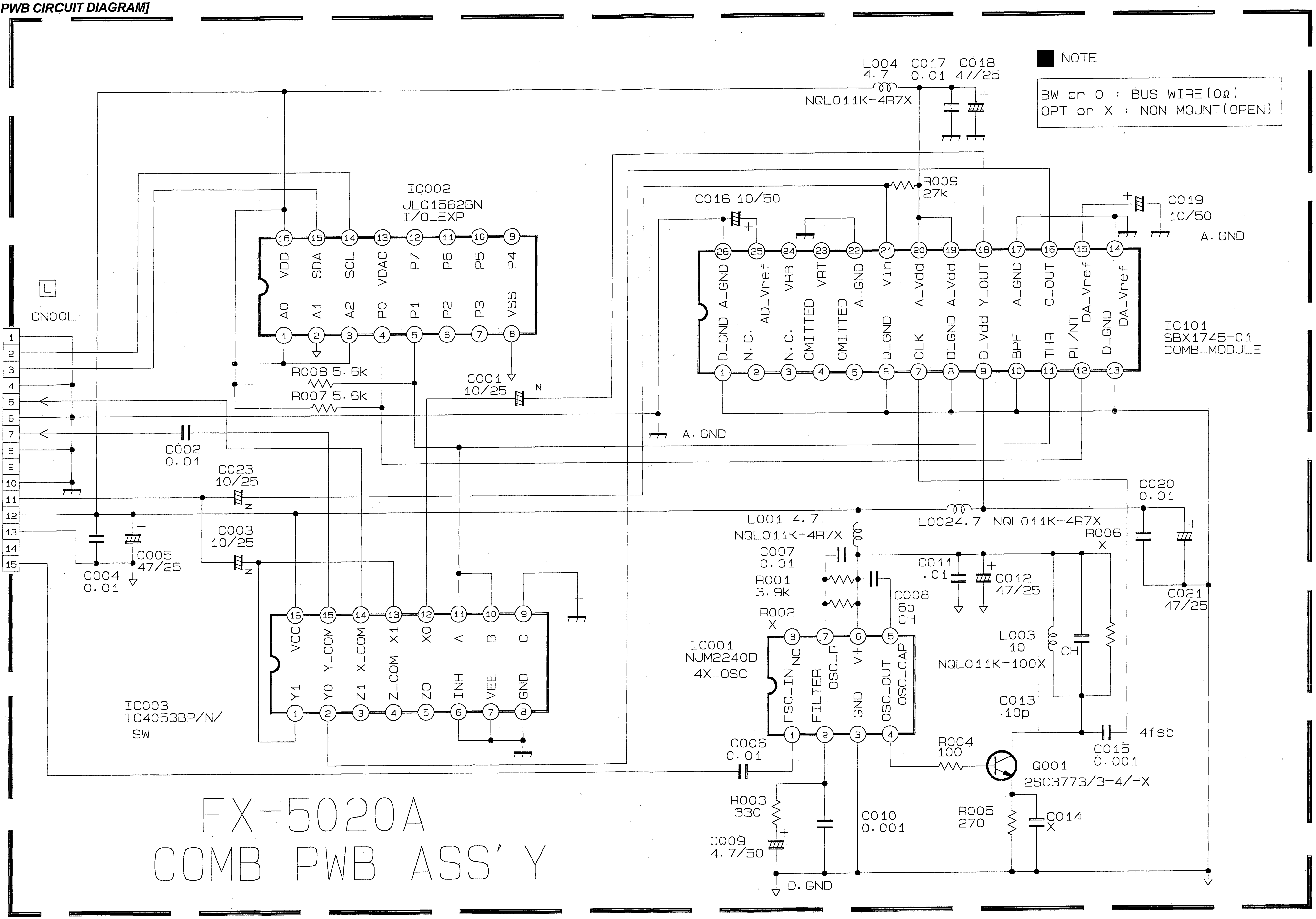
I2C BUS PORT MAP

BUSA	H	L
PA0	PC	V.S.COMP
PA1	RGB	COMPONENT
PA2	COMPONENT	OTHER
PA3	SYNC THROUGH	OTHER
PA4	EXTENSION UNIT	TERMINAL
PA5	HDTV	OTHER
PA6	NORMAL	PSAVE
PA7	VIDEO	PCHD

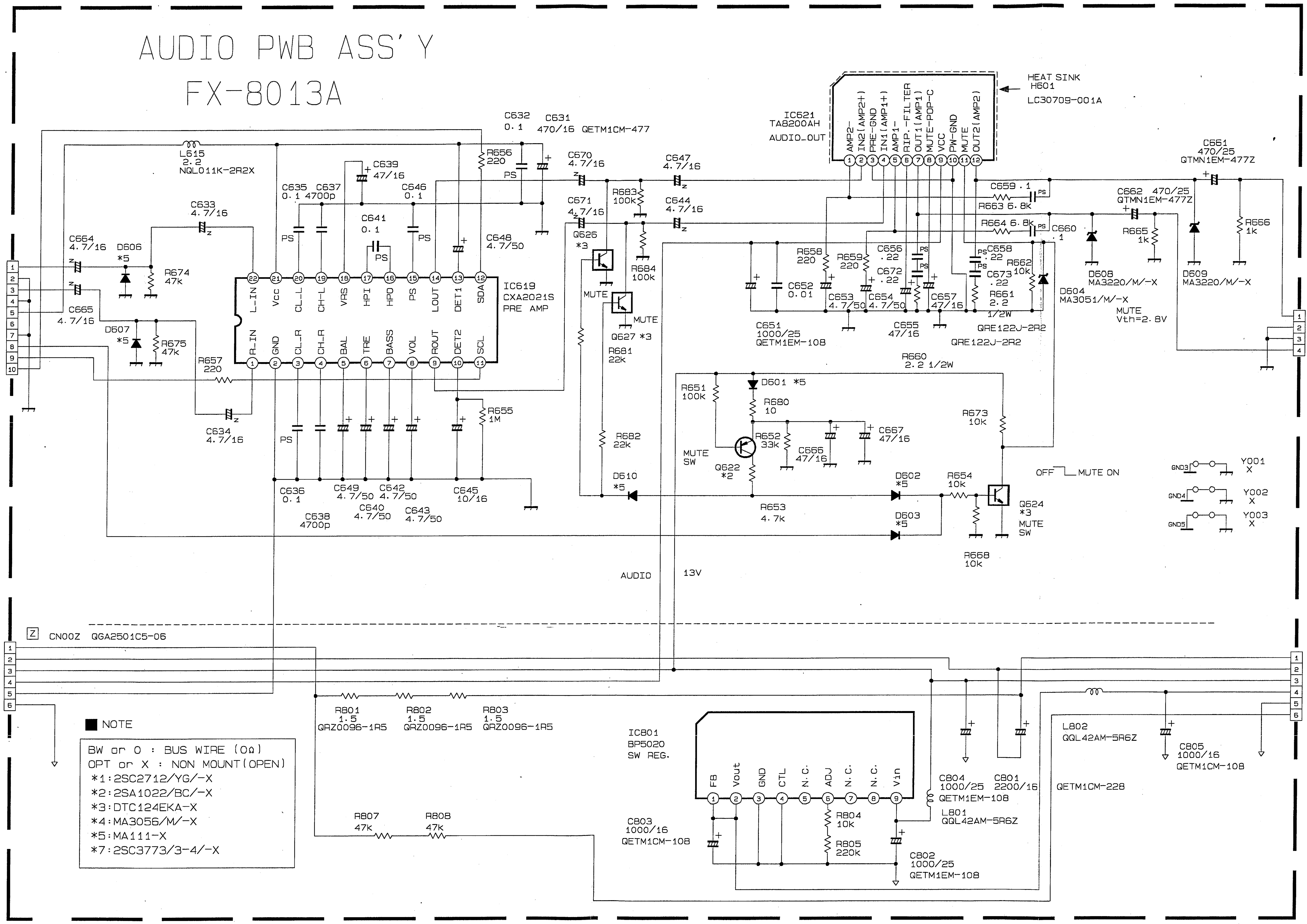
■ NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:DTC124EKA-X
*4:MA3056/M/-X
*5:MA111-X
*7:2SC3773/3-4/-X
*8:2SC2412K/QR/-X

[COMB PWB CIRCUIT DIAGRAM]


NOTE
BW or 0 : BUS WIRE(0Ω)
OPT or X : NON MOUNT(OPEN)
L004 4.7
NQL011K-4R7X
C017 0.01
C018 47/25
IC002
JLC1562BN
I/O_EXP
VDD SDA SCL VDAC P7 P6 P5 P4
A0 A1 A2 P0 P1 P2 P3 VSS
R008 5.6k
R007 5.6k
C001 10/25
CN00L
GND
SCL0
SDA0
GND
Y-OUT
GND
C-OUT
GND
3.3V
GND
V-IN
5V
GND
12V
SC
C002 0.01
C023 10/25
C003 10/25
C004 0.01
C005 47/25
A.GND
C016 10/50
R009 27k
C019 10/50
A.GND
D_GND A_GND AD_Vref VRB VRT A_GND Vin A_Vdd A_Vdd Y_OUT A_GND C_OUT DA_Vref DA_Vref
D_GND N.C. N.C. OMITTED OMITTED D_GND CLK D_GND D_Vdd BPF THR PL/NT D_GND
IC101
SBX1745-01
COMB_MODULE
C020 0.01
C021 47/25
L001 4.7
NQL011K-4R7X
L002 4.7 NQL011K-4R7X
R006 X
C007 0.01
R001 3.9k
R002 X
C008 6p CH
C011 .01
C012 47/25
L003 10
NQL011K-100X
CH
IC001
NJM2240D
4X_OSC
NC V+ OSC_R FILTER FSC_IN GND OSC_OUT OSC_CAP
C013 10p
4fsc
C015 0.001
R004 100
Q001
2SC3773/3-4/-X
C006 0.01
R003 330
C009 4.7/50
C010 0.001
R005 270
C014 X
D.GND
IC003
TC4053BP/N/
SW
VCC Y_COM X_COM X1 X0 A B C
Y1 Y0 Z1 Z_COM Z0 INH VEE GND
FX-5020A
COMB PWB ASS'Y

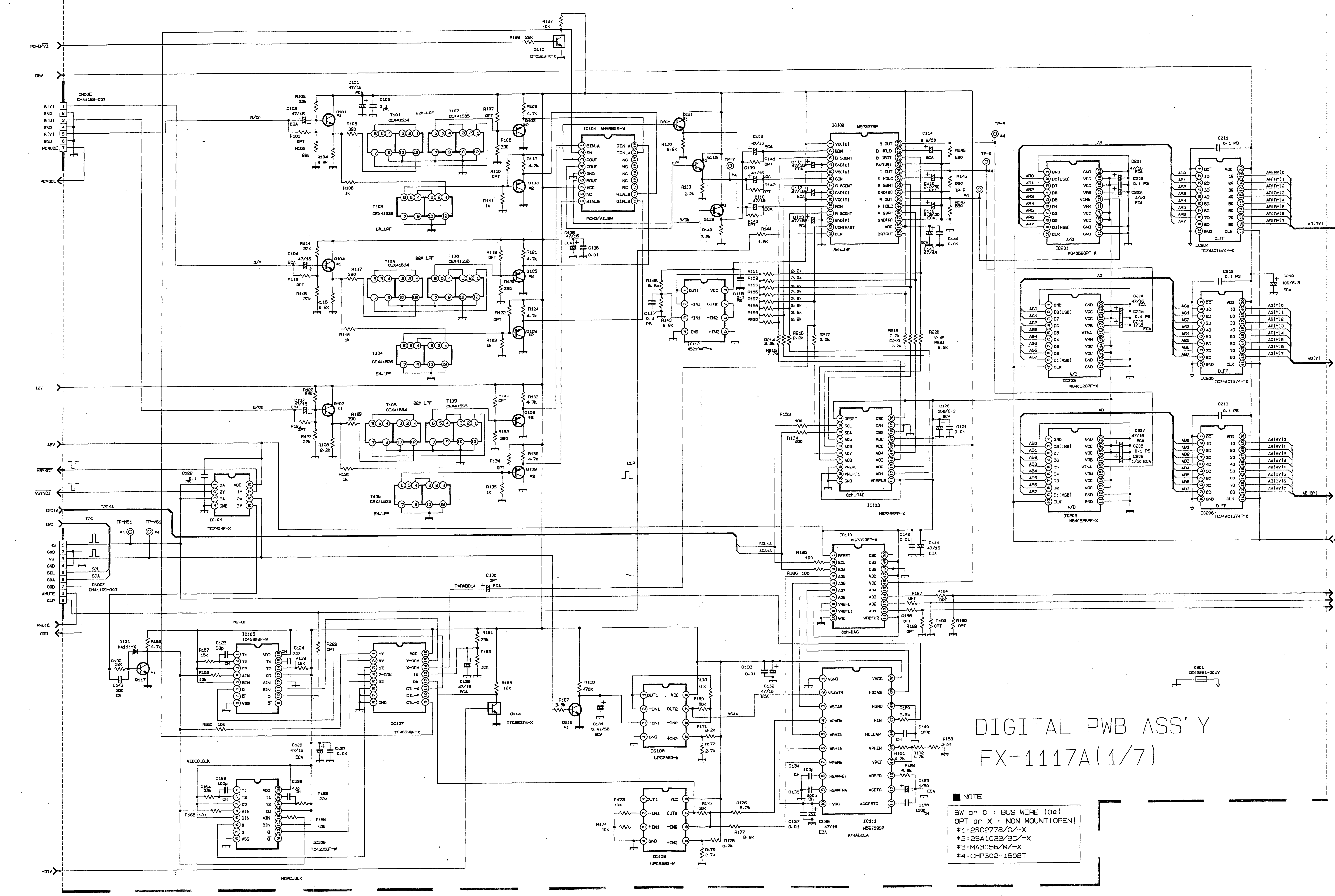
[AUDIO PWB CIRCUIT DIAGRAM]


AUDIO PWB ASS' Y
FX-8013A
HEAT SINK
H601
LC30709-001A
IC621
TA8200AH
AUDIO_OUT
AMP2-
IN2(AMP2+)
PRE-GND
IN1(AMP1+)
AMP1-
RIP.-FILTER
OUT1(AMP1)
MUTE-POP-C
VCC
PW-GND
MUTE
OUT2(AMP2)
IC619
CXA2021S
PRE AMP
L_IN
Vcc
CL_L
CH-L
VRS
HPI
HPD
PS
LOUT
DET1
SDA
R_IN
GND
CL_R
CH_R
BAL
TRE
BASS
VOL
ROUT
DET2
SCL
CN00N
QGA2501C1-10
LIN
GND
RIN
GND
12V
NC
GND
MUTE
SCL
SDA
TO AV
L615
2.2
NQL011K-2R2X
C632
0.1
C631
470/16 QETM1CM-477
R656
220
C639
47/16
C635 C637
0.1 4700p
C646
0.1
C641
0.1
C633
4.7/16
C664
4.7/16
D606
*5
R674
47k
C665
4.7/16
D607
*5
R675
47k
R657
220
C634
4.7/16
C648
4.7/50
C670
4.7/16
C671
4.7/16
C647
4.7/16
C644
4.7/16
R683
100k
R684
100k
Q626
*3
MUTE
Q627 *3
R681
22k
R655
1M
C636
0.1
C638
4700p
C649
4.7/50
C640
4.7/50
C642
4.7/50
C643
4.7/50
C645
10/16
C651
470/25
QTMN1EM-477Z
C659 .1
R663 6.8K
R664 6.8K
C660
.1
C662 470/25
QTMN1EM-477Z
R665
1k
R666
1k
R658
220
R659
220
C656
.22
C672
.22
C658
.22
C673
.22
R662
10k
R661
2.2
1/2W
C652
0.01
C653
4.7/50
C654
4.7/50
C657
47/16
C651
1000/25
QETM1EM-108
C655
47/16
QRE122J-2R2
QRE122J-2R2
D608
MA3220/M/-X
D604
MA3051/M/-X
MUTE
Vth=2.8V
D609
MA3220/M/-X
LOUT
GND
GND
ROUT
CN00W
QGA2501C5-04
TO REMOTE
R660
2.2 1/2W
R651
100k
D601 *5
R680
10
R652
33k
C666
47/16
C667
47/16
MUTE
SW
Q622
*2
R682
22k
D610
*5
R653
4.7k
D602
*5
D603
*5
R654
10k
R673
10k
Q624
*3
MUTE
SW
R668
10k
OFF MUTE ON
GND3 Y001 X
GND4 Y002 X
GND5 Y003 X
AUDIO
13V
CN00Z QGA2501C5-06
FAN_VO
FAN_GND
13V
AUDIO
AUDIO_GND
GND
TO POWER
TO DIGITAL
FAN
FAN_GND
13V
6V
GND
FANCTL
CN00H
QGA2501C5-06
R801
1.5
QRZ0096-1R5
R802
1.5
QRZ0096-1R5
R803
1.5
QRZ0096-1R5
IC801
BP5020
SW REG.
FB
Vout
GND
CTL
N.C.
ADJ
N.C.
N.C.
Vin
R804
10k
R805
220k
C803
1000/16
QETM1CM-108
C802
1000/25
QETM1EM-108
C804
1000/25
QETM1EM-108
C801
2200/16
QETM1CM-228
L801
QQL42AM-5R6Z
L802
QQL42AM-5R6Z
C805
1000/16
QETM1CM-108
R807
47k
R808
47k

■ NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2712/YG/-X
*2:2SA1022/BC/-X
*3:DTC124EKA-X
*4:MA3056/M/-X
*5:MA111-X
*7:2SC3773/3-4/-X

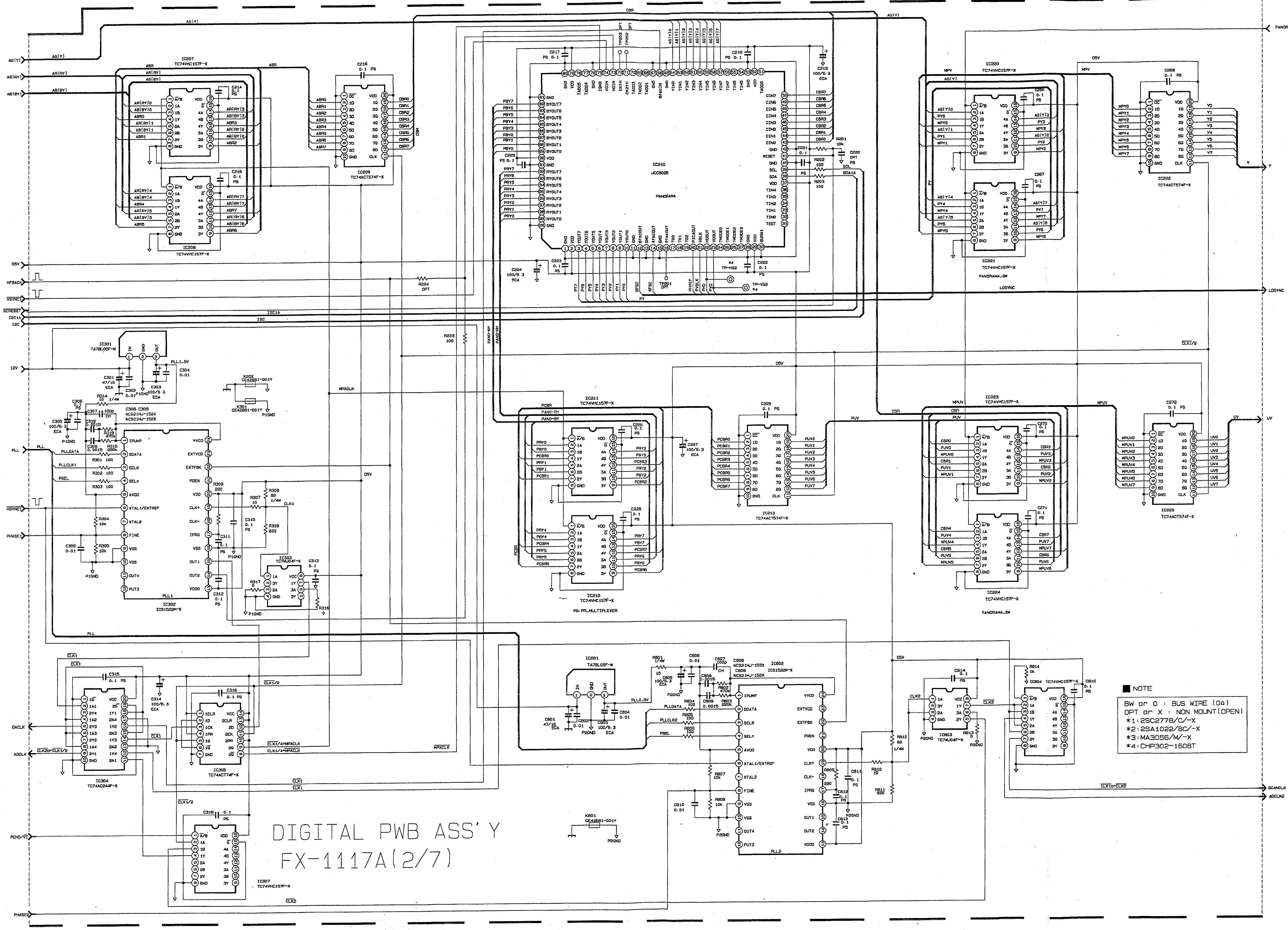
[DIGITAL PWB CIRCUIT DIAGRAM (1/7)]


PCHD/VI
D5V
12V
A5V
HSYNCI
VSYNCI
I2C1A
I2C
AMUTE
ODD
HDTV
PCMODE
CN00E CH41169-007
CN00F CH41169-007
IC101 AN5862S-W
PCHD/VI_SW
IC102 M52327SP
3ch_AMP
IC103 M62399FP-X
8ch_DAC
IC104 TC7W04F-X
IC105 TC4538BF-W
HD_CP
IC106 TC4538BF-W
VIDEO_BLK
HDPC_BLK
IC107 TC4053BF-X
IC108 UPC358G-W
IC109 UPC358G-W
IC110 M62399FP-X
IC111 M52595P
PARABOLA
IC112 M5218AFP-W
IC201 M84052BPF-X
IC202 M84052BPF-X
IC203 M84052BPF-X
IC204 TC74ACT574F-X
IC205 TC74ACT574F-X
IC206 TC74ACT574F-X
A/D
D_FF
AR(RY)
AG(Y)
AB(BY)
ADCLK
PHASE3
PHASE2
PHASE1
22M_LPF
6M_LPF
CEX41534
CEX41535
CEX41536
TP-HS1
TP-VS1
TP-B
TP-G
TP-R
CLP
SCL1A
SDA1A
K201 CE42081-001Y
DIGITAL PWB ASS'Y
FX-1117A(1/7)

■ NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:MA3056/M/-X
*4:CHP302-1608T

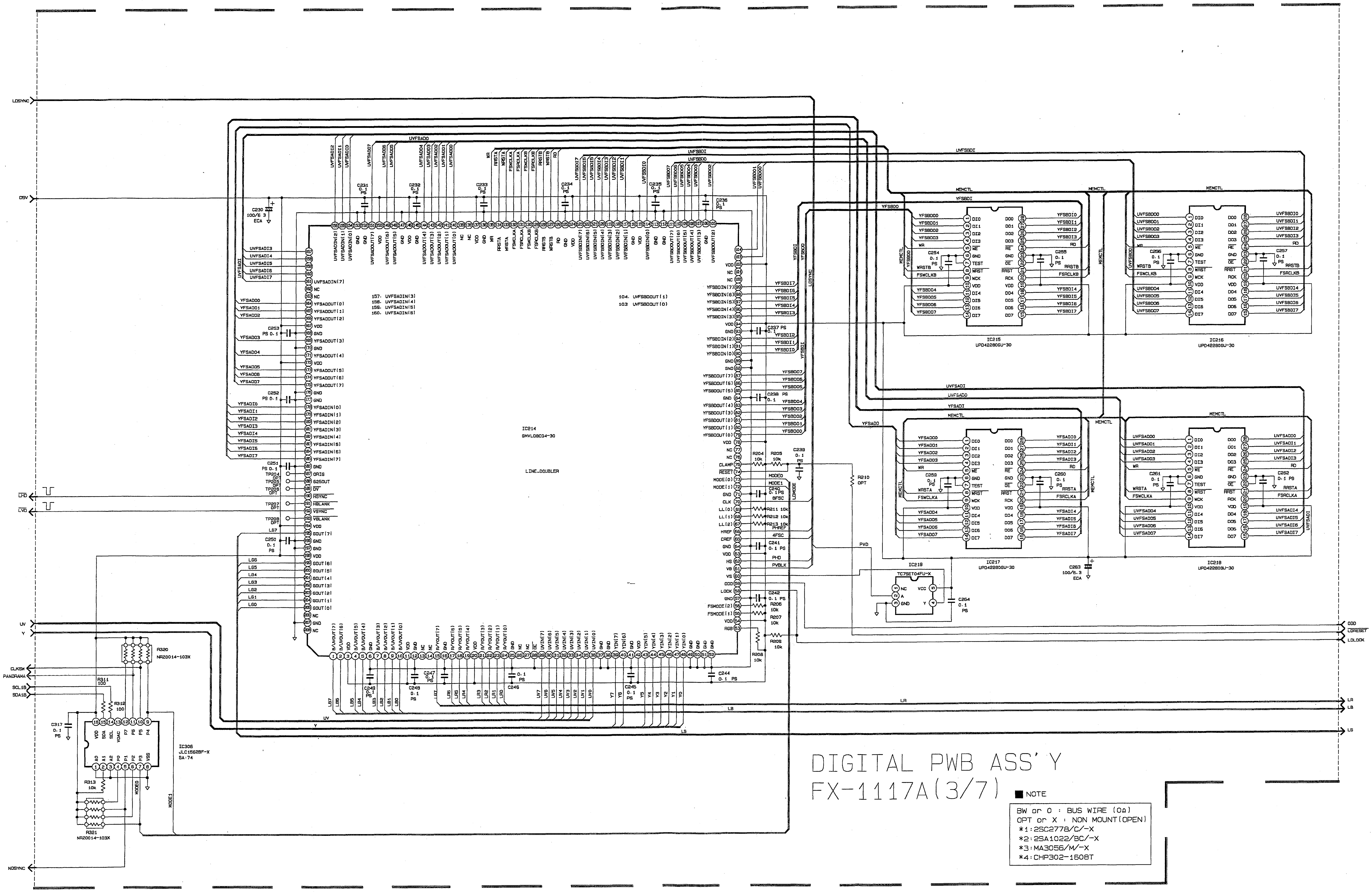
[DIGITAL PWB CIRCUIT DIAGRAM (2/7)]


DIGITAL PWB ASS'Y
FX-1117A(2/7)
AG(Y)
AR(RY)
AB(BY)
D5V
HFBACK
VSYNC
SCRESET
I2C1A
I2C
12V
PLL
HSYNC
PHASE1
DACLK
ADCLK
PCKD/Y
PHASE2
PANORAMA
Y
LDSYNC
UV
SCANCLK
ADCLK2
IC207 TC74VHC157F-X
IC208 TC74VHC157F-X
IC209 TC74ACT574F-X
IC210 JCC5025 PANORAMA
IC220 TC74VHC157F-X
IC221 TC74VHC157F-X PANORAMA_SW
IC222 TC74ACT574F-X
IC211 TC74VHC157F-X
IC212 TC74VHC157F-X PB-PR_MULTIPLEXER
IC213 TC74ACT574F-X
IC223 TC74VHC157F-X
IC224 TC74VHC157F-X PANORAMA_SW
IC225 TC74ACT574F-X
IC301 TA78L05F-W
IC302 ICS1522M-X PLL1
IC303 TC7WU04F-X
IC304 TC74AC244F-X
IC305 TC74ACT74F-X
IC307 TC74VHC157F-X
IC801 TA78L05F-W
IC802 ICS1522M-X PLL2
IC803 TC7WU04F-X
IC804 TC74VHC157F-X
K202 CE42881-001Y
K301 CE42881-001Y
K801 CE42881-001Y

■ NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:MA3056/M/-X
*4:CHP302-1608T

[DIGITAL PWB CIRCUIT DIAGRAM (3/7)]

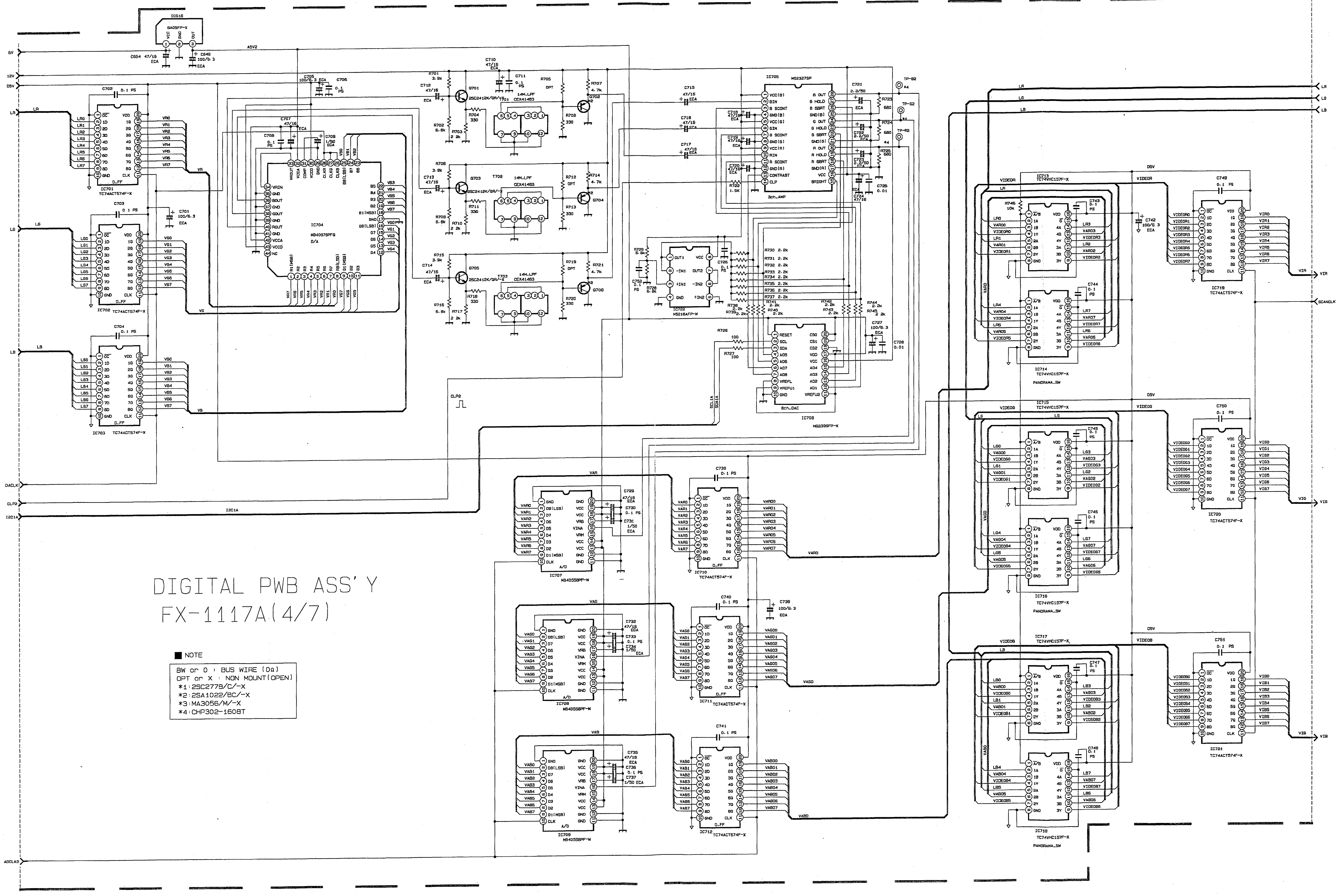

LDSYNC
DSV
LPD
LVD
UV
Y
CLKSK
PANORAMA
SCL15
SDA15
NDSYNC
IC214
GMVLD8CQ4-30
LINE_DOUBLER
IC215
UPD42280GU-30
IC216
UPD42280GU-30
IC217
UPD42280GU-30
IC218
UPD42280GU-30
IC219
TC7SET04FU-X
IC306
JLC1562BF-X
SA:74
R320
NRZ0014-103X
R321
NRZ0014-103X
R311
100
R312
100
R313
10k
C317
0.1
PS
C230
100/6.3
ECA
C263
100/6.3
ECA
C264
0.1
PS
UVFSADO
UVFSADI
YFSADO
YFSADI
UVFSBDI
UVFSBDO
YFSBDO
YFSBDI
MEMCTL
PVD
MODE0
MODE1
LR
LB
LS
ODD
LDRESET
LDLOCK

DIGITAL PWB ASS' Y
FX-1117A(3/7)

■ NOTE

BW or O : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:MA3056/M/-X
*4:CHP302-1608T

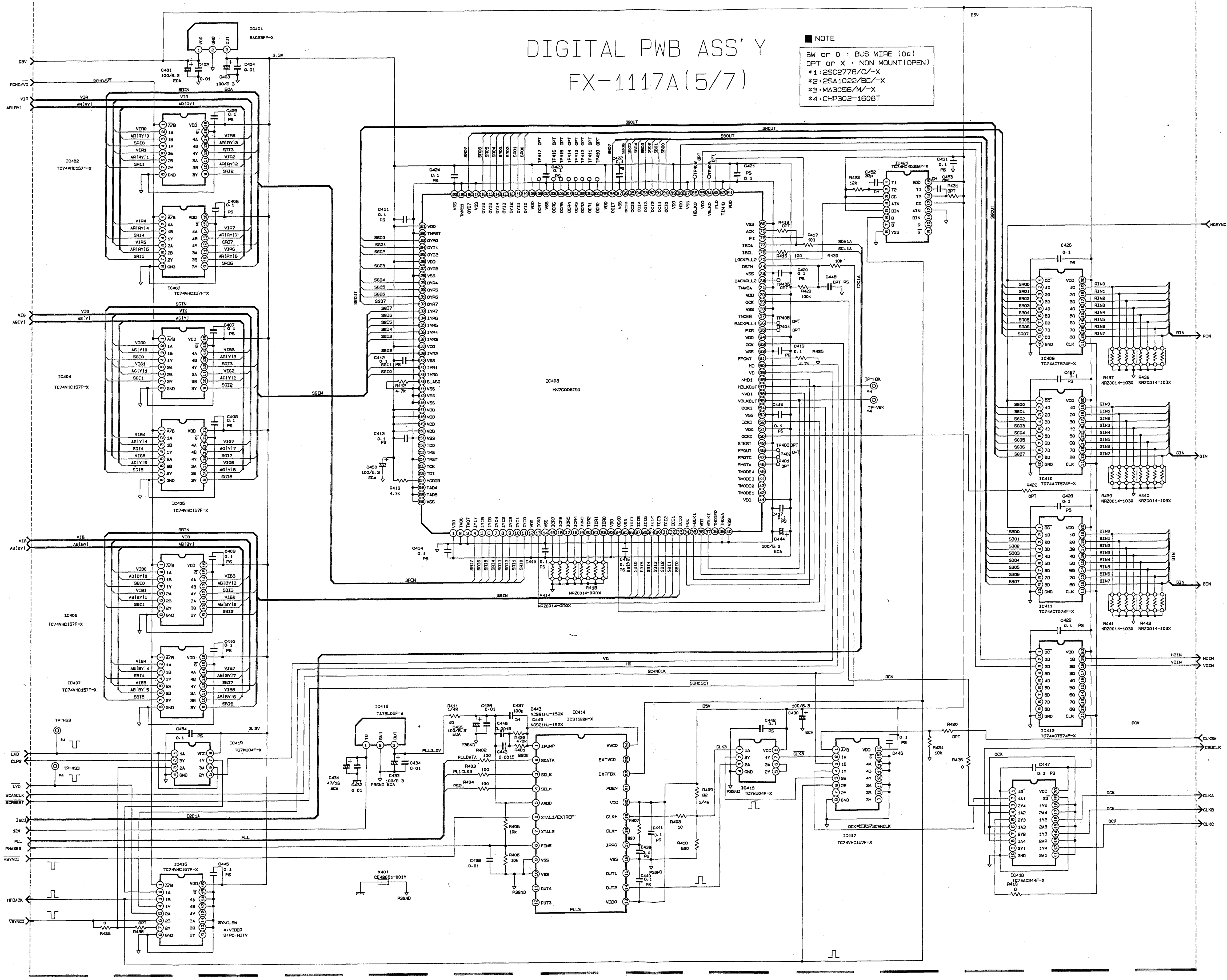
[DIGITAL PWB CIRCUIT DIAGRAM (4/7)]


IC516 BA05FP-X
5V
12V
D5V
LR
LG
LB
IC701 TC74ACT574F-X
IC702 TC74ACT574F-X
IC703 TC74ACT574F-X
IC704 MB40978PFQ D/A
IC705 M52327SP 3ch_AMP
IC706 M52390FP-X 8ch_DAC
IC722 M5218AFP-W
Q701 Q702 Q703 Q704 Q705 Q706
2SC2412K/QR/-X
T701 T702 T703 14M_LPF CEX41463
TP-R2 TP-B2 TP-G2
IC707 MB40558PF-W A/D
IC708 MB40558PF-W A/D
IC709 MB40558PF-W A/D
IC710 TC74ACT574F-X
IC711 TC74ACT574F-X
IC712 TC74ACT574F-X
IC713 TC74VHC157F-X
IC714 TC74VHC157F-X PANORAMA_SW
IC715 TC74VHC157F-X
IC716 TC74VHC157F-X PANORAMA_SW
IC717 TC74VHC157F-X
IC718 TC74VHC157F-X PANORAMA_SW
IC719 TC74ACT574F-X
IC720 TC74ACT574F-X
IC721 TC74ACT574F-X
VIR
VIG
VIB
SCANCLK
DACLK
CLP2
I2C1A
ADCLK2
DIGITAL PWB ASS'Y
FX-1117A(4/7)

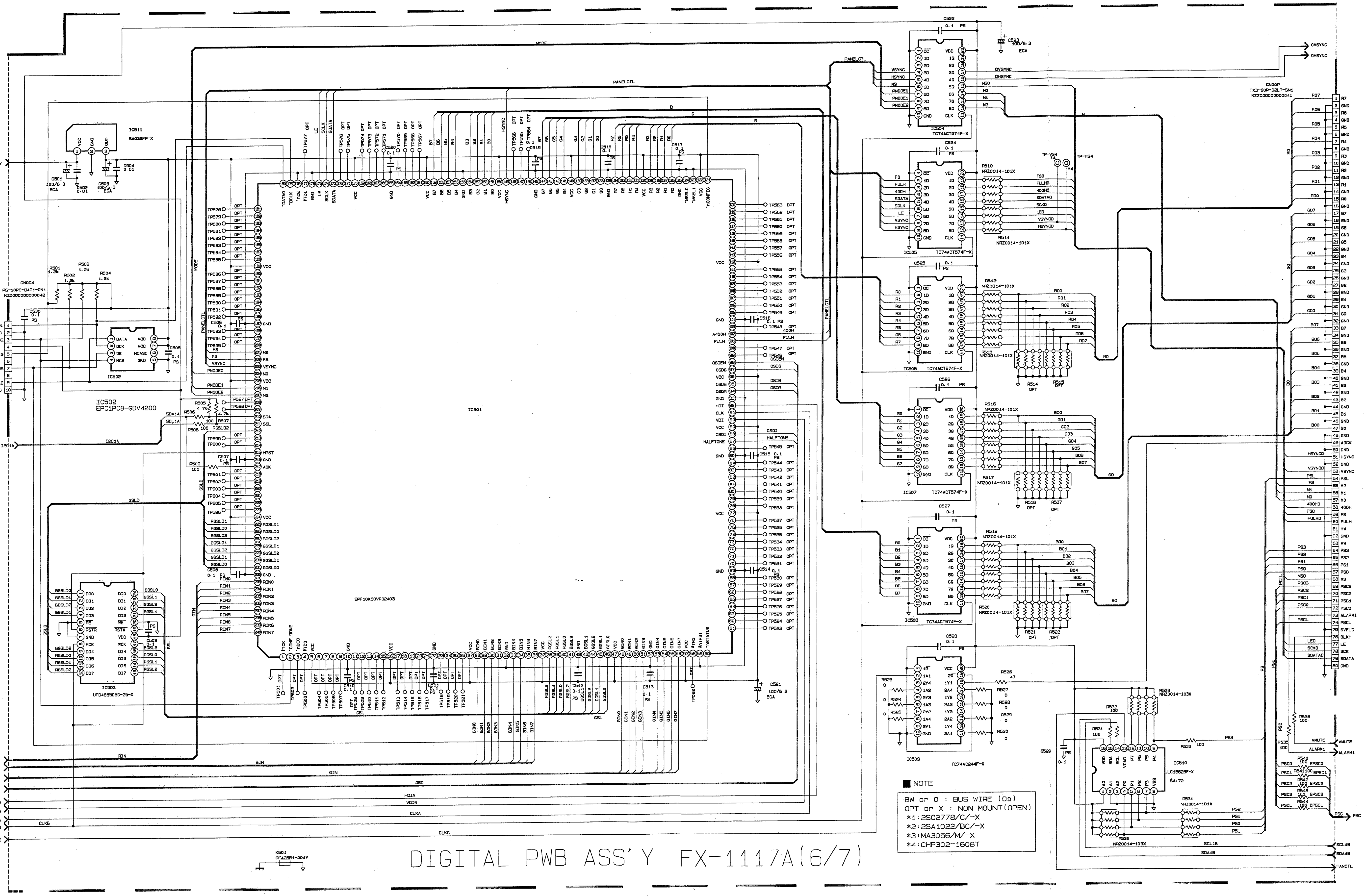
■ NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:MA3056/M/-X
*4:CHP302-1608T

[DIGITAL PWB CIRCUIT DIAGRAM (5/7)]


DIGITAL PWB ASS'Y
FX-1117A(5/7)
■ NOTE
BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:MA3056/M/-X
*4:CHP302-1608T
IC401 BA033FP-X
IC402 TC74VHC157F-X
IC403 TC74VHC157F-X
IC404 TC74VHC157F-X
IC405 TC74VHC157F-X
IC406 TC74VHC157F-X
IC407 TC74VHC157F-X
IC408 MN7C006T90
IC409 TC74ACT574F-X
IC410 TC74ACT574F-X
IC411 TC74ACT574F-X
IC412 TC74ACT574F-X
IC413 TA78L05F-W
IC414 ICS1522M-X
IC415 TC7WU04F-X
IC416 TC74VHC157F-X
IC417 TC74VHC157F-X
IC418 TC74AC244F-X
IC419 TC7WU04F-X
IC421 TC74HC4538AF-X
K401 CE42681-001Y
D5V
PCHD/VI
VIR
AR(RY)
VIG
AG(Y)
VIB
AB(BY)
TP-HS3
TP-VS3
LRD
CLP2
LVG
SCANCLK
SCRESET
I2C1
S2V
PLL
PHASE3
HSYNCI
HFBACK
VSYNCI
SRIN
SGIN
SBIN
SSOUT
SROUT
SGOUT
SBOUT
VD
HD
TP-HBK
TP-VBK
NCSYNC
RIN
GIN
BIN
HDIN
VDIN
CLKSW
DSDCLK
CLKA
CLKB
CLKC
PLL3
SYNC_SW
A:VIDEO
B:PC.HDTV

[DIGITAL PWB CIRCUIT DIAGRAM (6/7)]

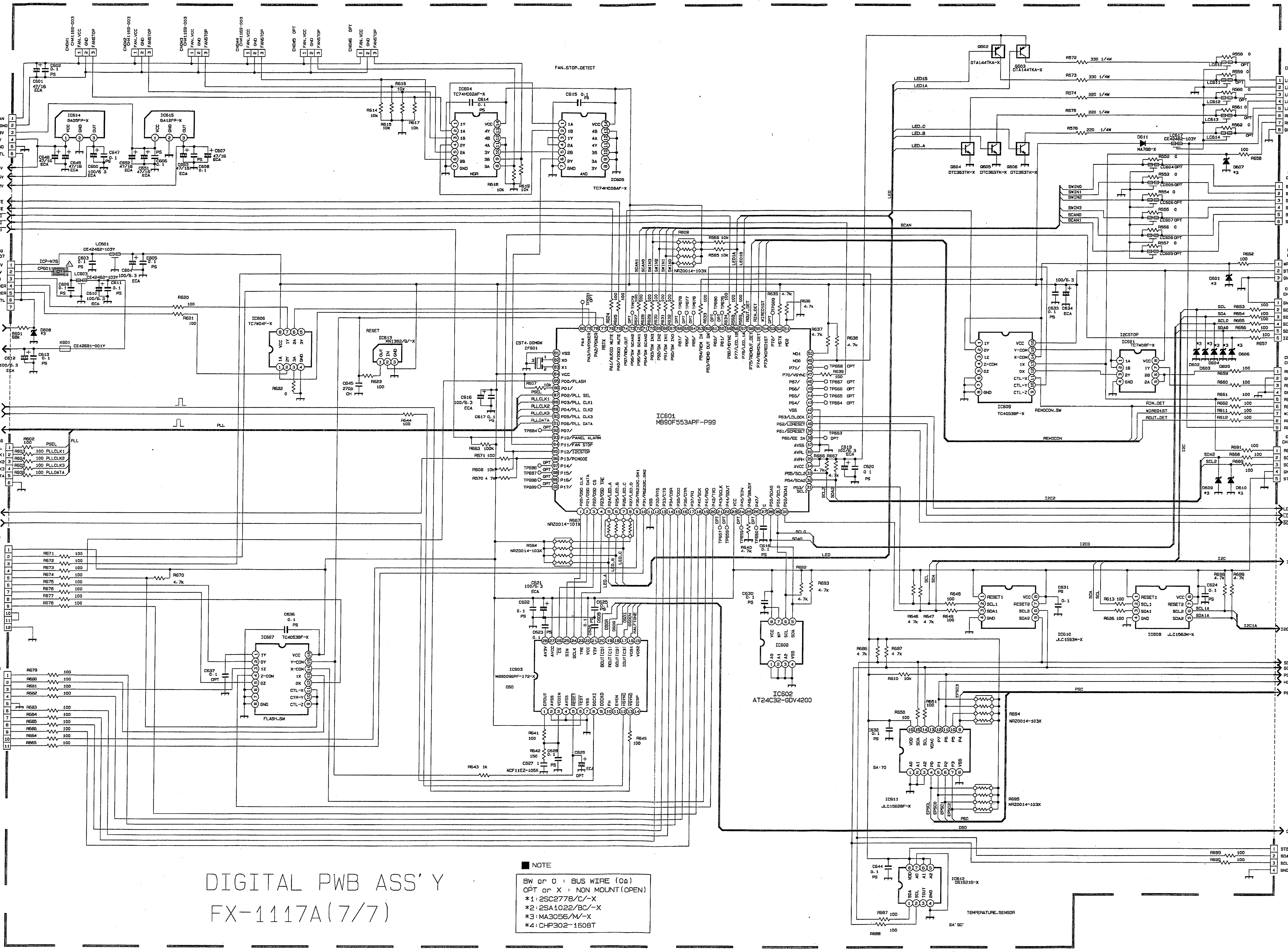

IC501
EPF10K50VRC240-3
IC502
EPC1PC8-GDV4200
IC503
UPD485505G-25-X
IC504
TC74ACT574F-X
IC505
TC74ACT574F-X
IC506
TC74ACT574F-X
IC507
TC74ACT574F-X
IC508
TC74ACT574F-X
IC509
TC74AC244F-X
IC510
JLC1562BF-X
IC511
BA033FP-X
CN004
PS-10PE-D4T1-PN1
NZZ000000000042
CN00P
TX3-80P-D2LT-SN1
NZZ000000000041
K501
QE42681-001Y
D5V
I2C1A
RIN
BIN
GIN
GSD
HDIN
VDIN
CLKA
CLKB
CLKC
OVSYNC
OHSYNC
VMUTE
ALARM1
PSC
SCL1B
SDA1B
FANCTL
MODE
PANELCTL
TP-VS4
TP-HS4
DCLK
GND
CONF_DONE
VCC
nCONFIG
NC
nSTATUS
DATA0

■ NOTE

BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:MA3056/M/-X
*4:CHP302-1608T

DIGITAL PWB ASS'Y FX-1117A(6/7)

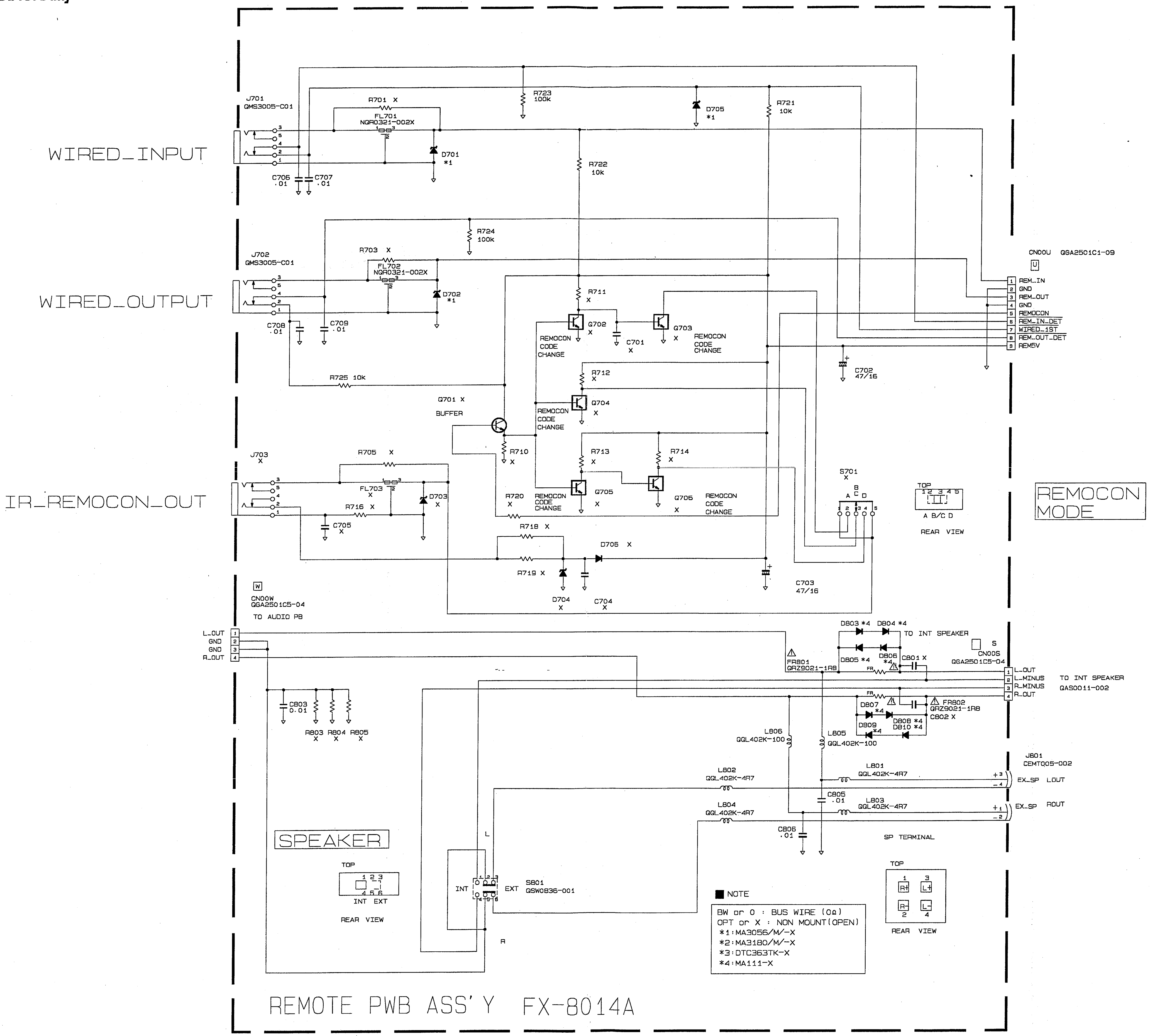
[DIGITAL PWB CIRCUIT DIAGRAM (7/7)]


DIGITAL PWB ASS'Y
FX-1117A(7/7)
IC601
MB90F553APF-P99
IC602
AT24C32-6DV4200
IC603
MB90096PF-172-X
IC604
TC74HC02AF-X
IC605
TC74HC08AF-X
IC606
TC7W04F-X
IC607
TC4053BF-X
IC608
JLC1563N-X
IC609
TC4053BF-X
IC610
JLC1563N-X
IC611
JLC1562BF-X
IC612
DS1621S-X
IC613
MN1382/Q/-X
IC614
BA05FP-X
IC615
BA12FP-X
IC621
TC7W08F-X
CN555
CN000
CN00B
CN00C
CN00R
CN00X
CN00T
CN002
CN0C1
CN00U
CN556
CN00V
FAN_STOP_DETECT
FLASH_SW
REMOCON_SW
TEMPERATURE_SENSOR
I2C
I2C1A
I2C2
PSC
OSD
PLL
PCMODE
OSDCLK
LDLOCK
LDRESET
SCRESET
SDA1B
SCL1B
PCHD/VI
HDTV

■ NOTE

BW or O : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:2SC2778/C/-X
*2:2SA1022/BC/-X
*3:MA3056/M/-X
*4:CHP302-1608T

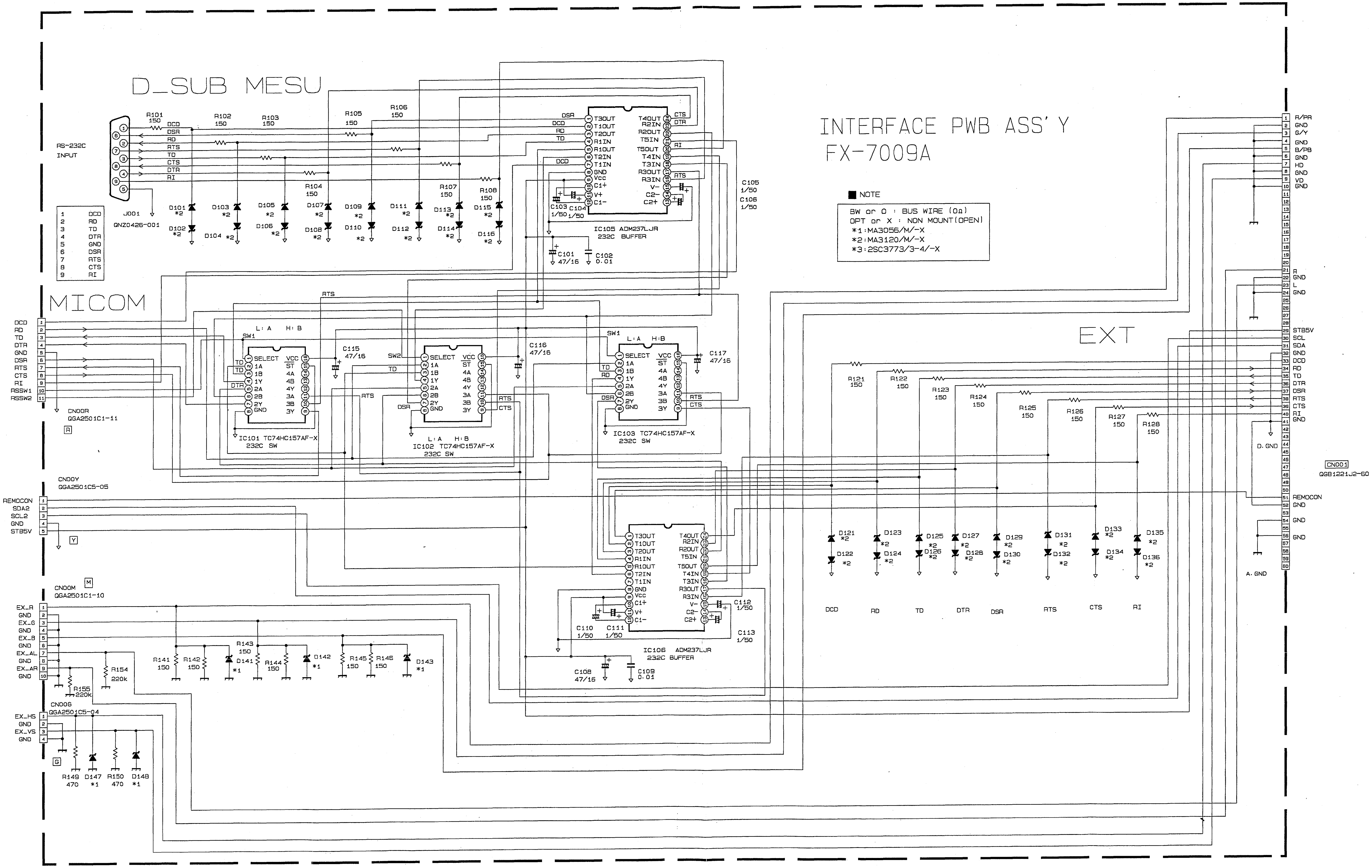
[REMOTE PWB CIRCUIT DIAGRAM]


WIRED_INPUT
J701
QMS3005-C01
R701 X
FL701
NQR0321-002X
D701
*1
C706
.01
C707
.01
R723
100k
D705
*1
R721
10k
R722
10k
WIRED_OUTPUT
J702
QMS3005-C01
R724
100k
R703 X
FL702
NQR0321-002X
D702
*1
C708
.01
C709
.01
R711
X
Q702
X
Q703
X
REMOCON CODE CHANGE
C701
X
C702
47/16
R725 10K
R712
X
Q704
X
Q701 X
BUFFER
R710
X
R713
X
R714
X
J703
X
R705 X
FL703
X
D703
X
IR_REMOCON_OUT
R716 X
C705
X
R720
X
Q705
X
Q706
X
S701
X
TOP
A B/C D
REAR VIEW
REMOCON MODE
R718 X
D706 X
R719 X
D704
X
C704
X
C703
47/16
CN00U QGA2501C1-09
REM_IN
GND
REM_OUT
GND
REMOCON
REM_IN_DET
WIRED_1ST
REM_OUT_DET
REM5V
W
CN00W
QGA2501C5-04
TO AUDIO PB
L_OUT
GND
GND
R_OUT
D803 *4
D804 *4
TO INT SPEAKER
D805 *4
D806 *4
C801 X
FR801
QRZ9021-1R8
S
CN00S
QGA2501C5-04
L_OUT
L_MINUS
R_MINUS
R_OUT
TO INT SPEAKER
QAS0011-002
D807 *4
FR802
QRZ9021-1R8
C802 X
D809 *4
D808 *4
D810 *4
C803
0.01
R803 X
R804 X
R805 X
L806
QQL402K-100
L805
QQL402K-100
L801
QQL402K-4R7
J801
CEMT005-002
EX_SP LOUT
EX_SP ROUT
L802
QQL402K-4R7
C805
.01
L803
QQL402K-4R7
L804
QQL402K-4R7
C806
.01
SP TERMINAL
SPEAKER
TOP
INT EXT
REAR VIEW
L
INT
EXT
S801
QSW0836-001
R
TOP
REAR VIEW
REMOTE PWB ASS'Y FX-8014A

■ NOTE

BW or O : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:MA3056/M/-X
*2:MA3180/M/-X
*3:DTC363TK-X
*4:MA111-X

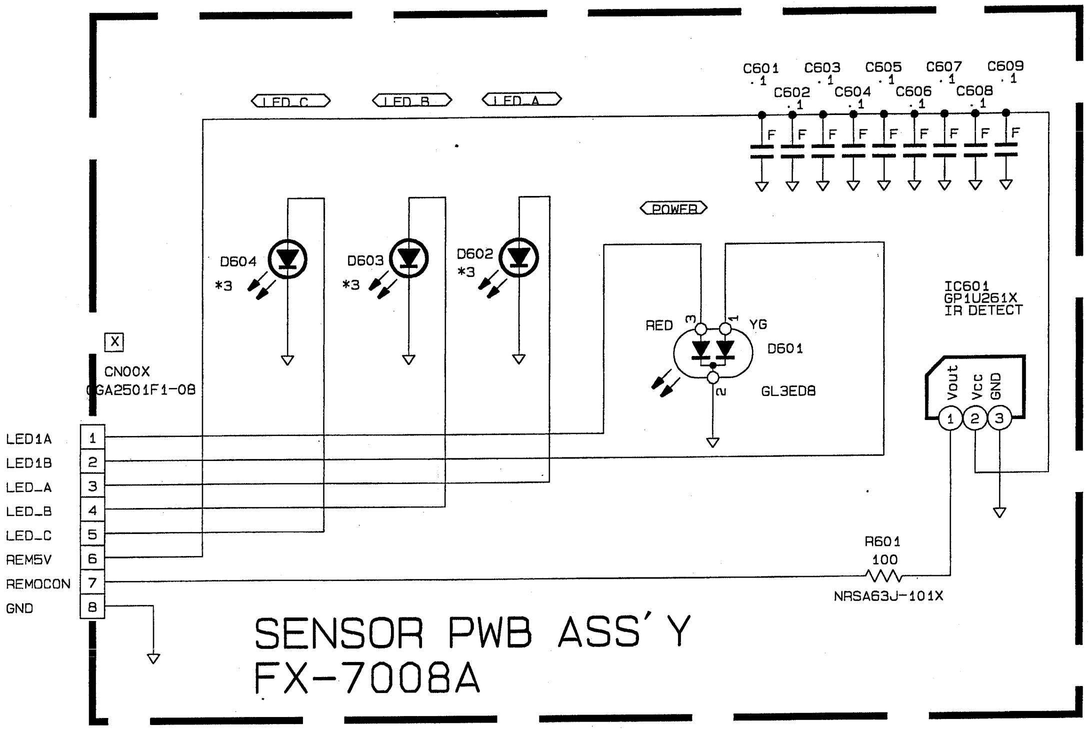
[INTERFACE PWB CIRCUIT DIAGRAM]


D_SUB MESU
INTERFACE PWB ASS'Y
FX-7009A
NOTE
BW or O : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:MA3056/M/-X
*2:MA3120/M/-X
*3:2SC3773/3-4/-X
RS-232C INPUT
J001
QNZ0426-001
1 DCD
2 RD
3 TD
4 DTR
5 GND
6 DSR
7 RTS
8 CTS
9 RI
IC105 ADM237LJR 232C BUFFER
IC106 ADM237LJR 232C BUFFER
IC101 TC74HC157AF-X 232C SW
IC102 TC74HC157AF-X 232C SW
IC103 TC74HC157AF-X 232C SW
MICOM
CN00R QGA2501C1-11
CN00Y QGA2501C5-05
CN00M QGA2501C1-10
CN006 QGA2501C5-04
EXT
CN001 QGB1221J2-60
DCD RD TD DTR GND DSR RTS CTS RI RSSW1 RSSW2
REMOCON SDA2 SCL2 GND STB5V
EX_R GND EX_G GND EX_B GND EX_AL GND EX_AR GND
EX_HS GND EX_VS GND
R/PR GND G/Y GND B/PB GND HD GND VD GND
R GND L GND
STB5V SCL SDA GND DCD RD TD DTR DSR RTS CTS RI GND
REMOCON GND GND GND
D. GND
A. GND
R101 150 R102 150 R103 150 R104 150 R105 150 R106 150 R107 150 R108 150
R121 150 R122 150 R123 150 R124 150 R125 150 R126 150 R127 150 R128 150
R141 150 R142 150 R143 150 R144 150 R145 150 R146 150
R149 470 R150 470 R154 220k R155 220k
C101 47/16 C102 0.01 C103 1/50 C104 1/50 C105 1/50 C106 1/50
C108 47/16 C109 0.01 C110 1/50 C111 1/50 C112 1/50 C113 1/50
C115 47/16 C116 47/16 C117 47/16
L: A H: B
SW1 SW2

[SENSOR PWB CIRCUIT DIAGRAM]

■ NOTE

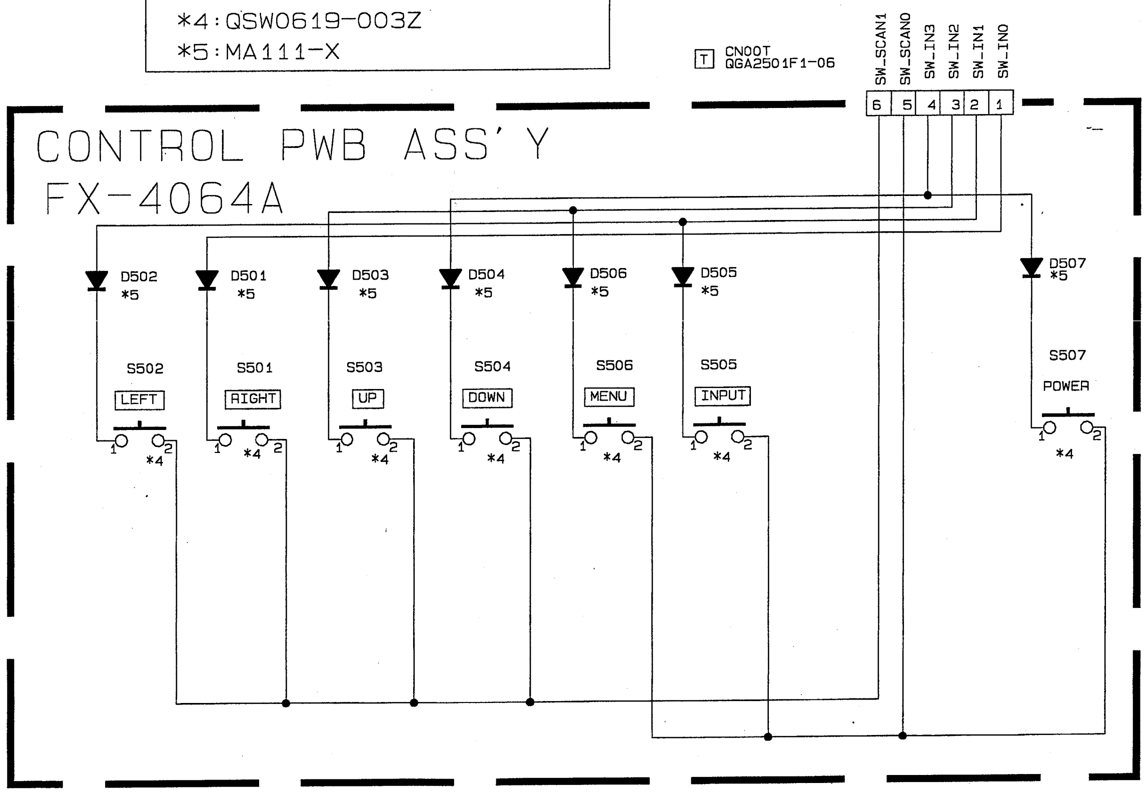
BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*1:SML-210VT-X


C601
C603
C605
C607
C609
C602
C604
C606
C608
LED_C
LED_B
LED_A
POWER
D604
*3
D603
*3
D602
*3
RED
YG
D601
GL3ED8
IC601
GP1U261X
IR DETECT
Vout
Vcc
GND
X
CN00X
QGA2501F1-08
LED1A
LED1B
LED_A
LED_B
LED_C
REMSV
REMOCON
GND
R601
100
NRSA63J-101X
SENSOR PWB ASS'Y
FX-7008A

[CONTROL PWB CIRCUIT DIAGRAM]

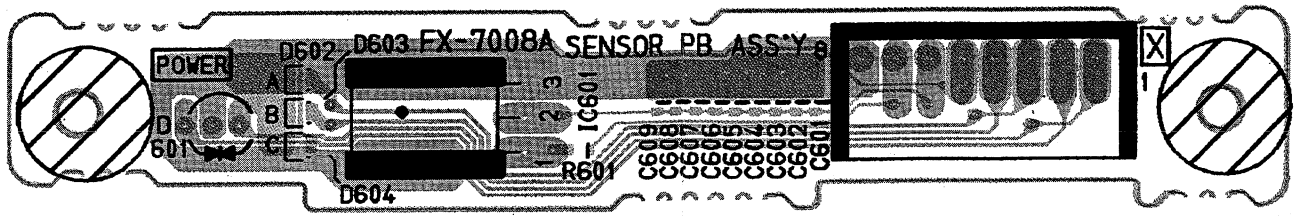
■ NOTE

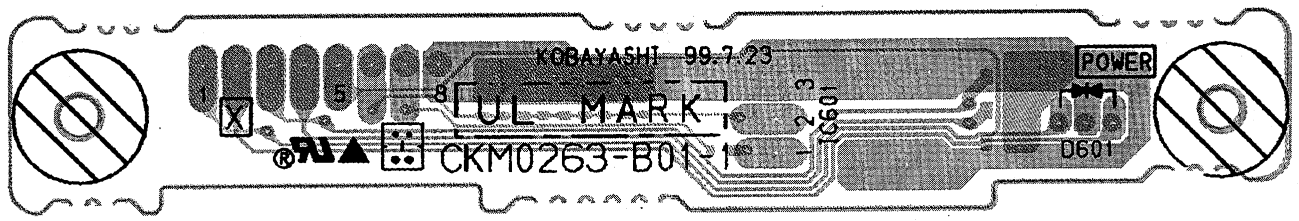
BW or 0 : BUS WIRE (0Ω)
OPT or X : NON MOUNT(OPEN)
*4:QSW0619-003Z
*5:MA111-X


T
CN00T
QGA2501F1-06
SW_SCAN1
SW_SCAN0
SW_IN3
SW_IN2
SW_IN1
SW_IN0
CONTROL PWB ASS'Y
FX-4064A
D502 *5
D501 *5
D503 *5
D504 *5
D506 *5
D505 *5
D507 *5
S502 LEFT
S501 RIGHT
S503 UP
S504 DOWN
S506 MENU
S505 INPUT
S507 POWER
*4

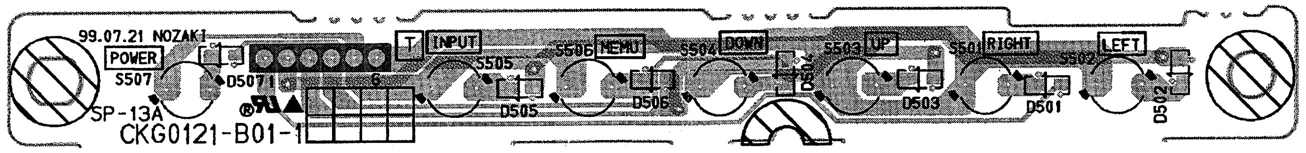
PATTERN DIAGRAMS

[SENSOR PWB PATTERN]


POWER
D602
D603 FX-7008A SENSOR PB ASS'Y
A
B
C
D601
D604
IC601
R601
C609
C608
C607
C606
C605
C604
C603
C602
C601
X

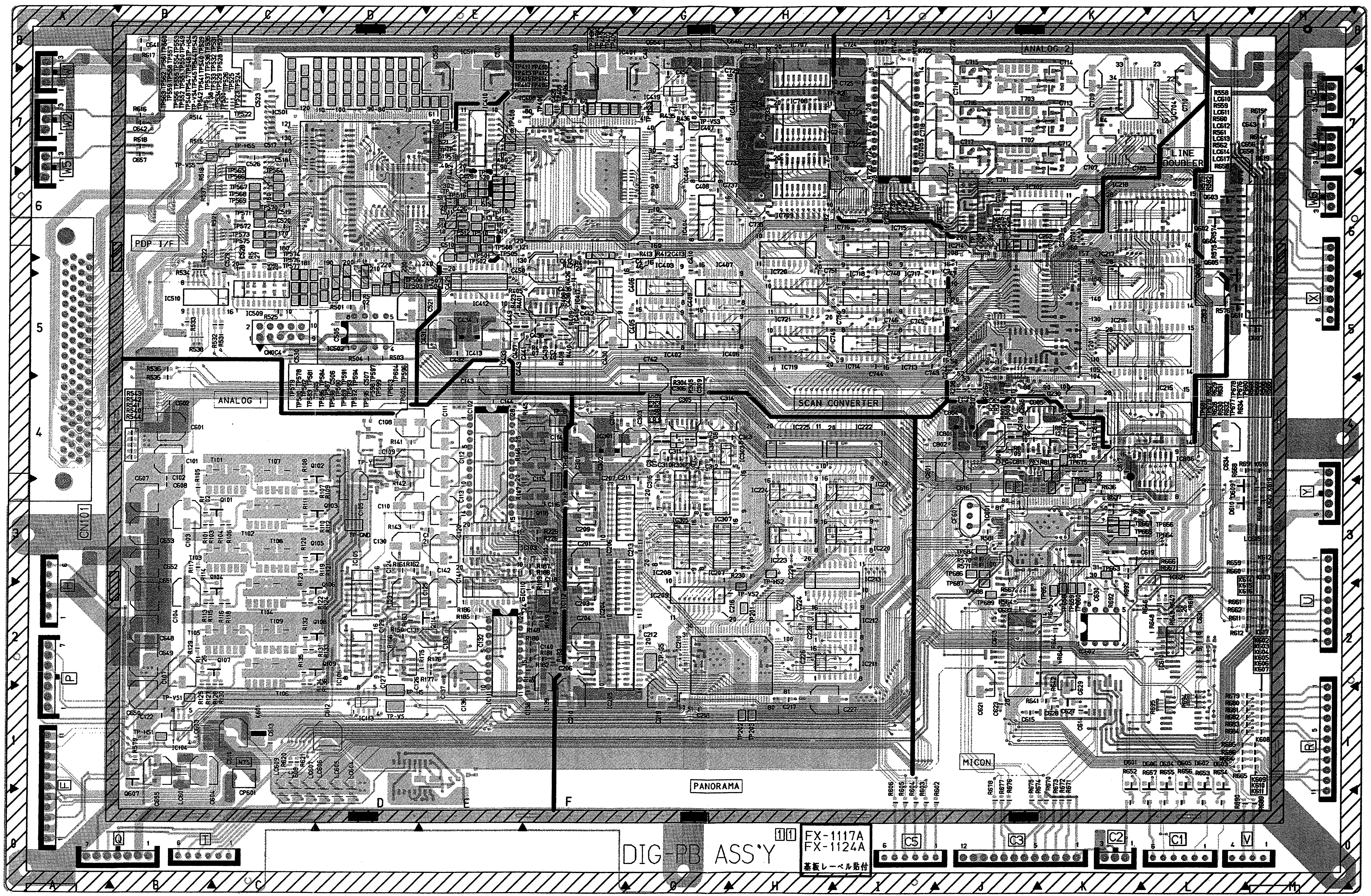

KOBAYASHI 99.7.23
UL MARK
CKM0263-B01-1
IC601
POWER
D601
X

[CONTROL PWB PATTERN]

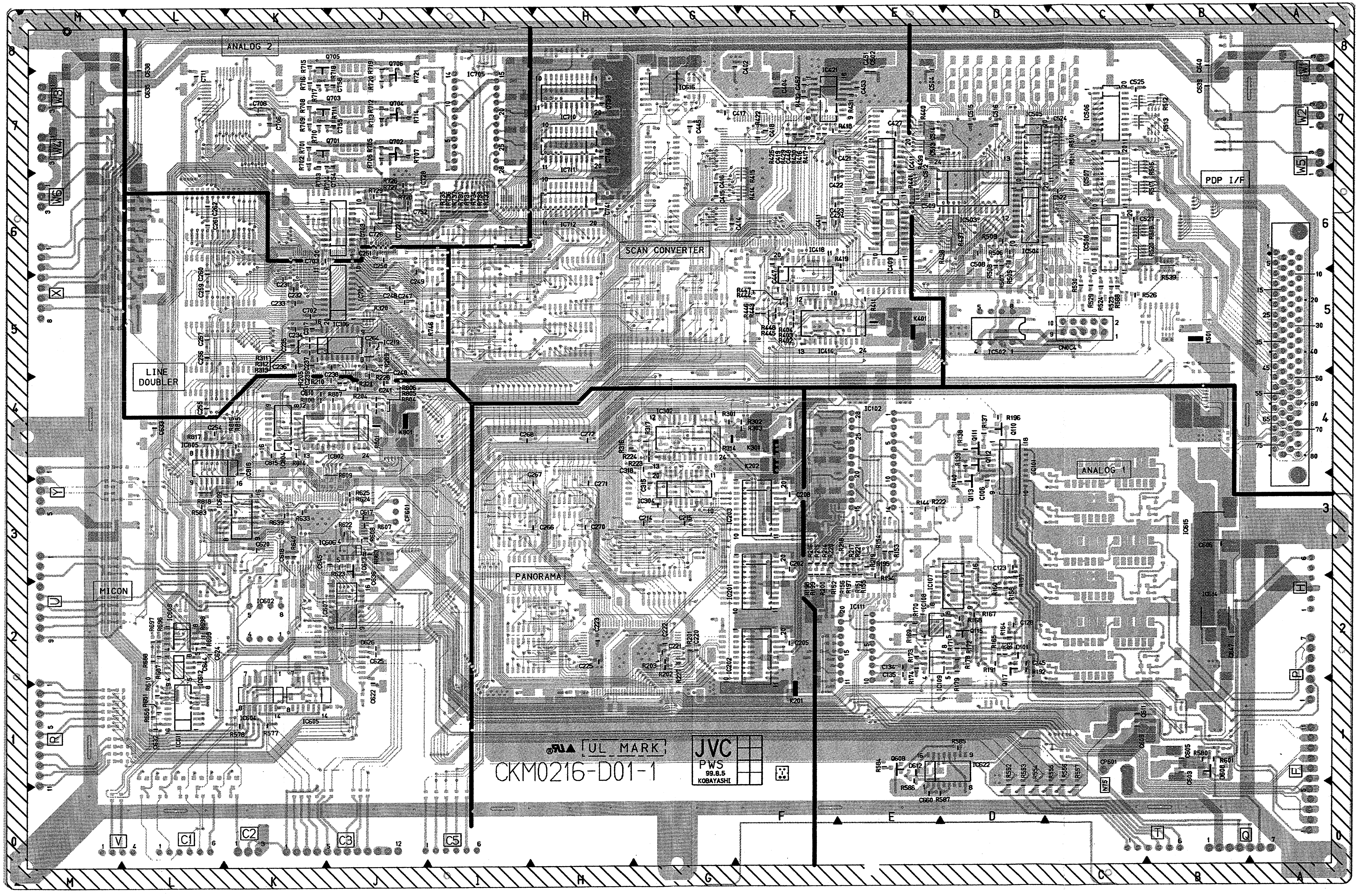

99.07.21 NOZAKI
POWER
S507
D507
SP-13A
CKG0121-B01-1
T
INPUT
S505
D505
S506
MENU
D506
S504
DOWN
S503
UP
D503
D504
S501
RIGHT
D501
S502
LEFT
D502

GD-V4200PZW
GD-V4200PZW-G

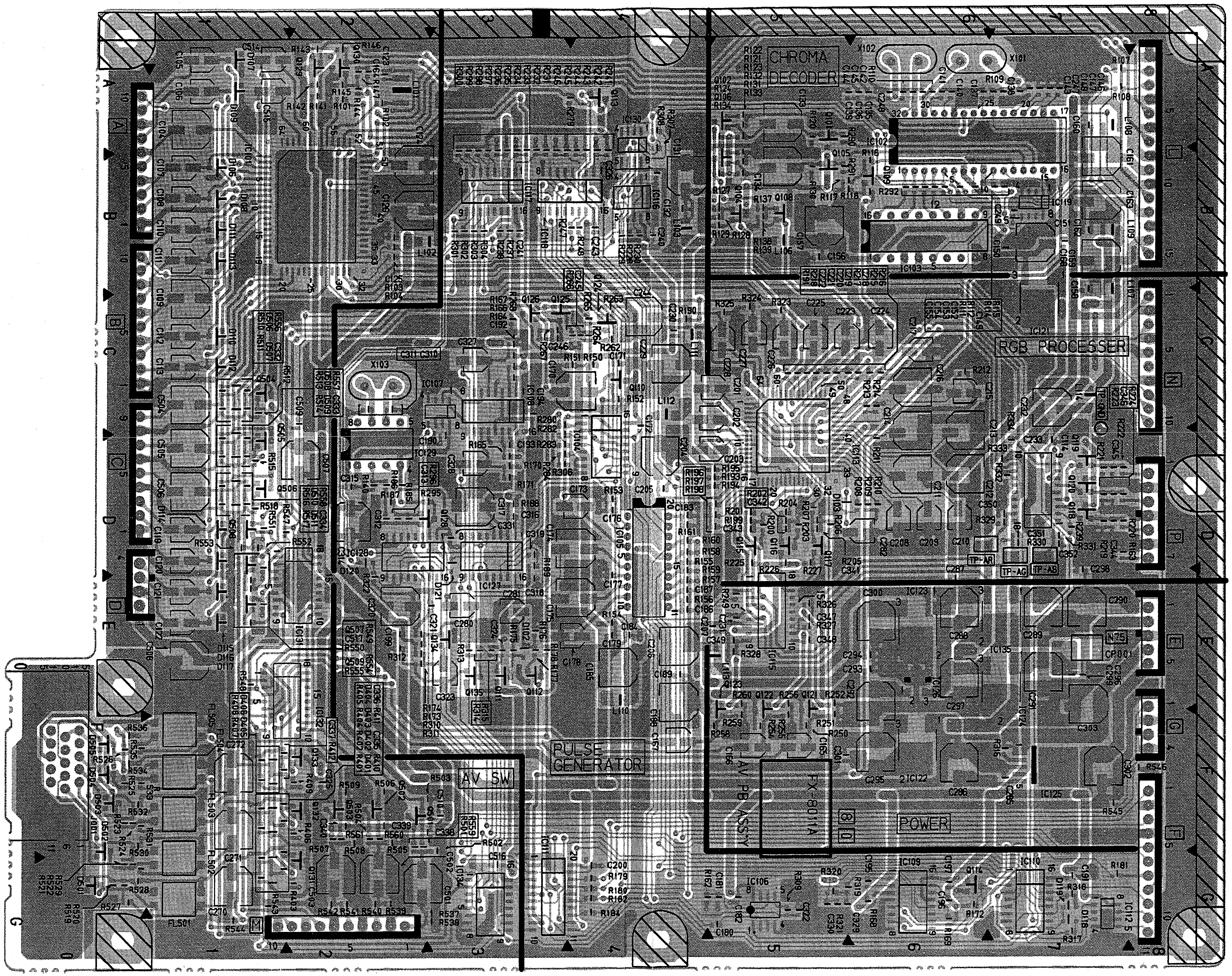
[DIGITAL PWB PATTERN] (side A)


PDP I/F
ANALOG 1
ANALOG 2
LINE DOUBLER
SCAN CONVERTER
MICON
PANORAMA
DIG-PB ASS'Y
FX-1117A
FX-1124A
基板レーベル貼付
CN101
C5
C3
C2
C1
Q
T
V
F
P
R
U
Y
X
W1
W2
W3
W4
W5
W6

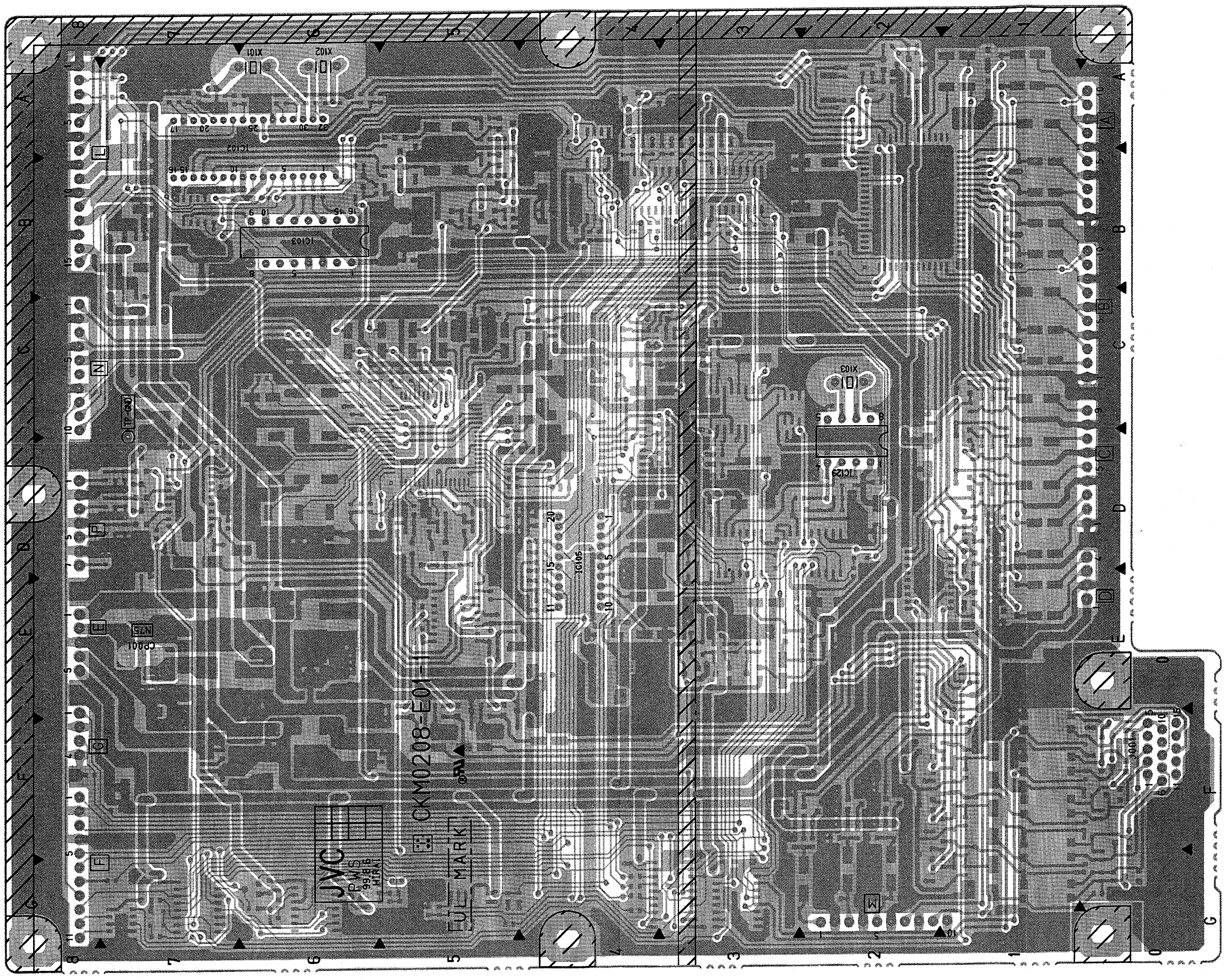
[DIGITAL PWB PATTERN] (side B)


ANALOG 2
SCAN CONVERTER
LINE DOUBLER
PANORAMA
MICON
ANALOG 1
PDP I/F
UL MARK
CKM0216-D01-1
JVC
PWS
99.8.5
KOBAYASHI

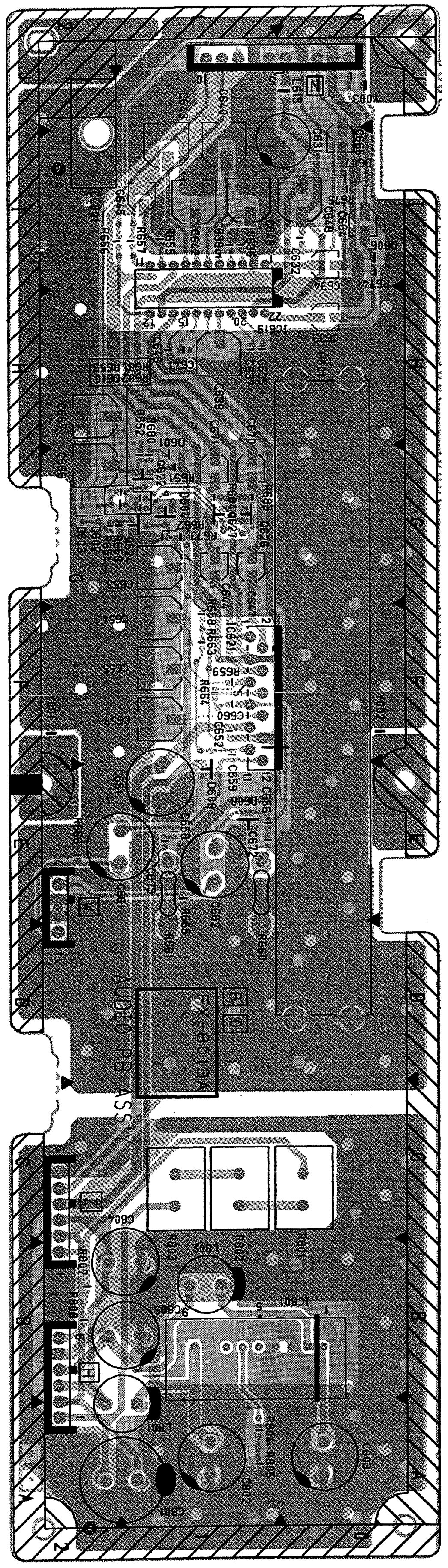
[AV PWB PATTERN] (side A)


CHROMA DECODER
RGB PROCESSER
PULSE GENERATOR
AV SW
AV PB ASSY
POWER
FX-801A

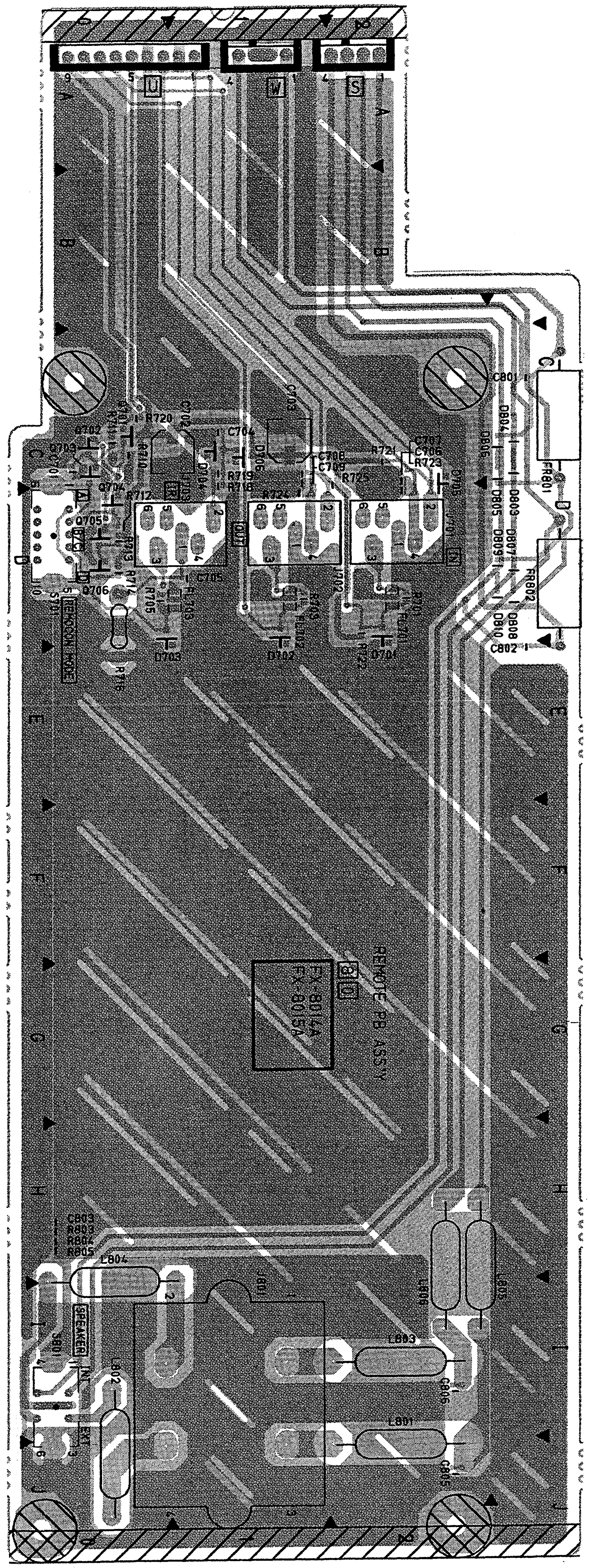
[AV PWB PATTERN]* *(side B)


X101
X102
X103
IC102
IC103
IC105
IC129
J001
CP001
CKM0208-E01-II
JVC
UL MARK
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8

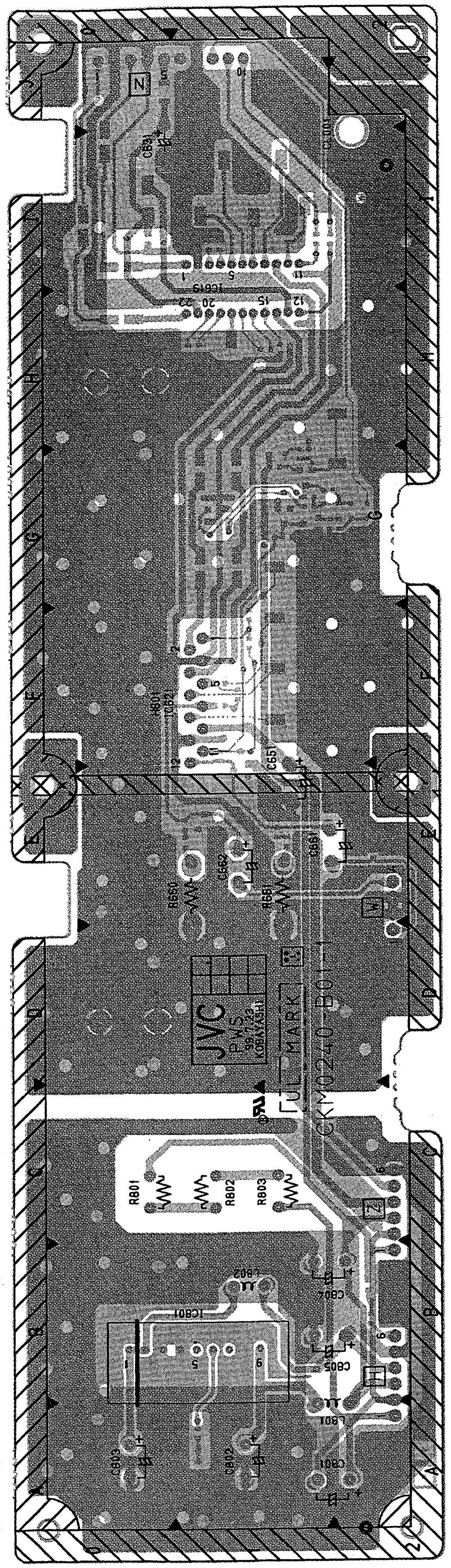
[AUDIO PWB PATTERN]   (side A)


AUDIO PB ASSY
FX-B010A

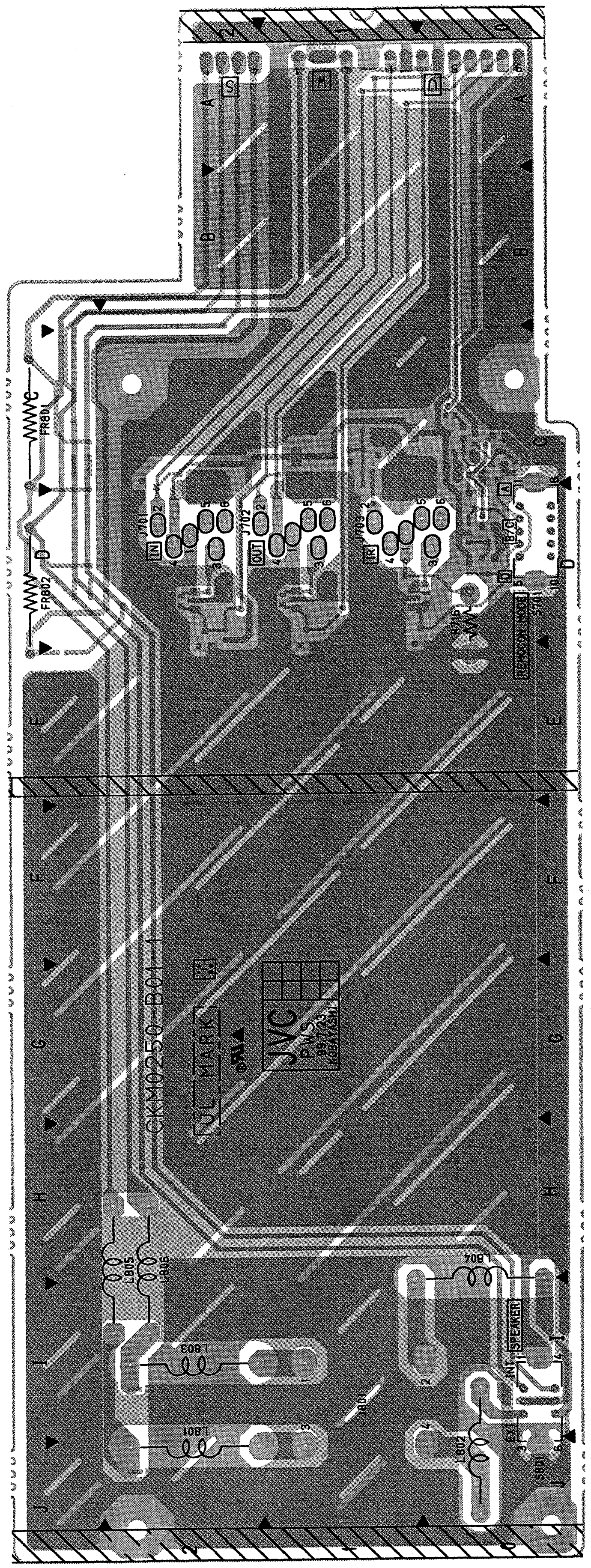
[REMOTE PWB PATTERN]   (side A)


REMOTE PB ASSY
FX-B014A
FX-B015A

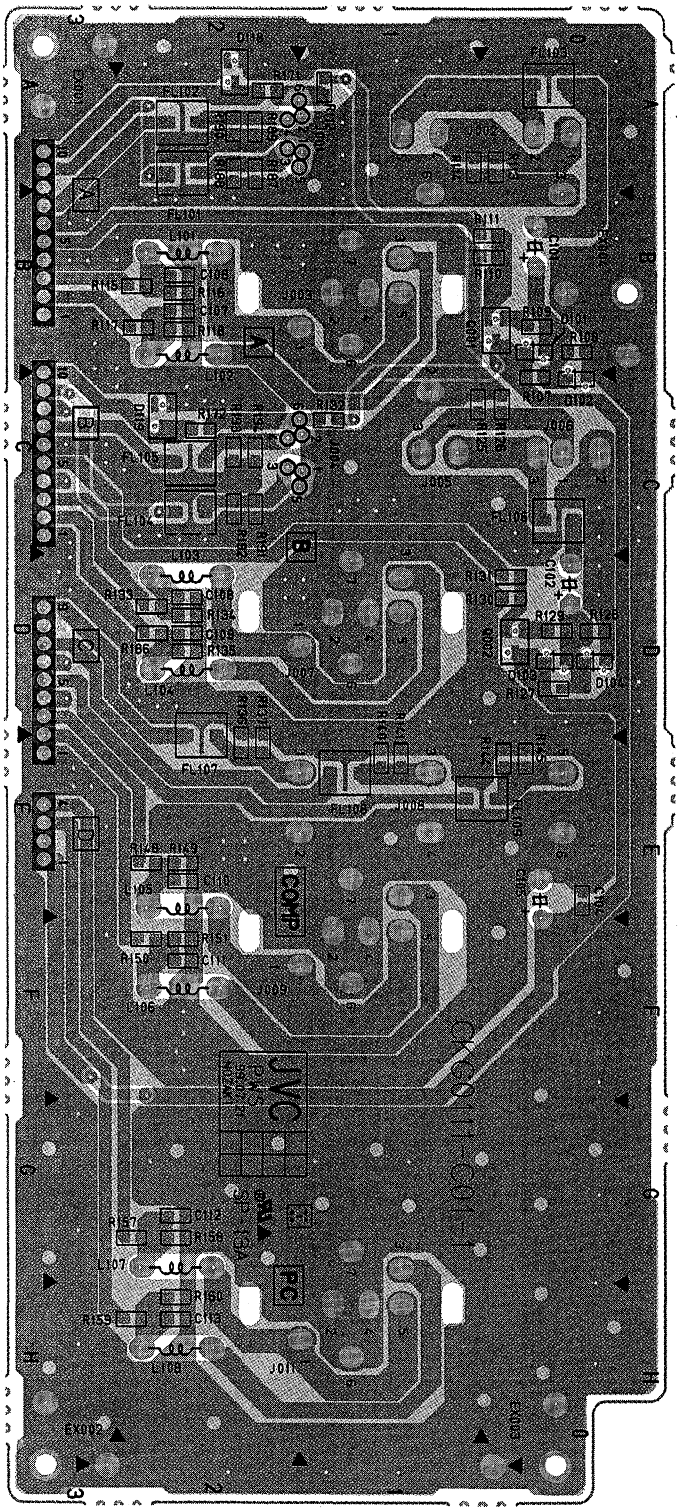
[AUDIO PWB PATTERN]   (side B)


JVC
UL MARK
CKM0240-B01

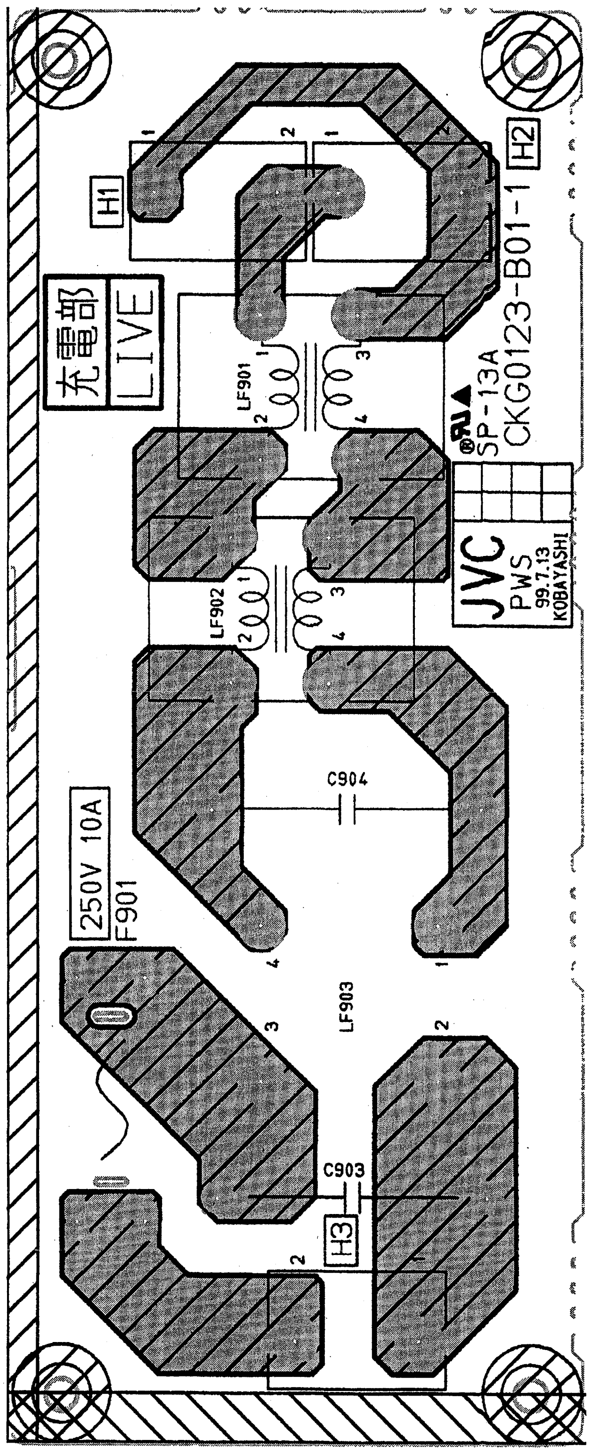
[REMOTE PWB PATTERN]   (side B)


JVC
UL MARK
CKM0250-B01

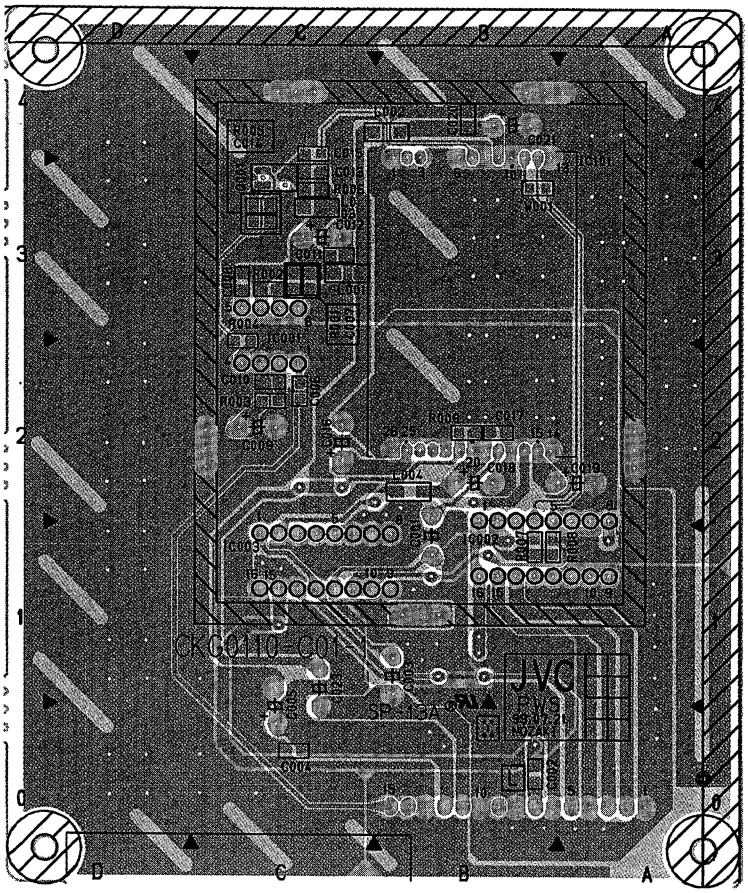
[TERMINAL PWB PATTERN]


COMP
PC
JVC
L101
L102
L103
L104
L105
L106
L107
L108
FL101
FL102
FL107
FL108
J009
J011
EX002

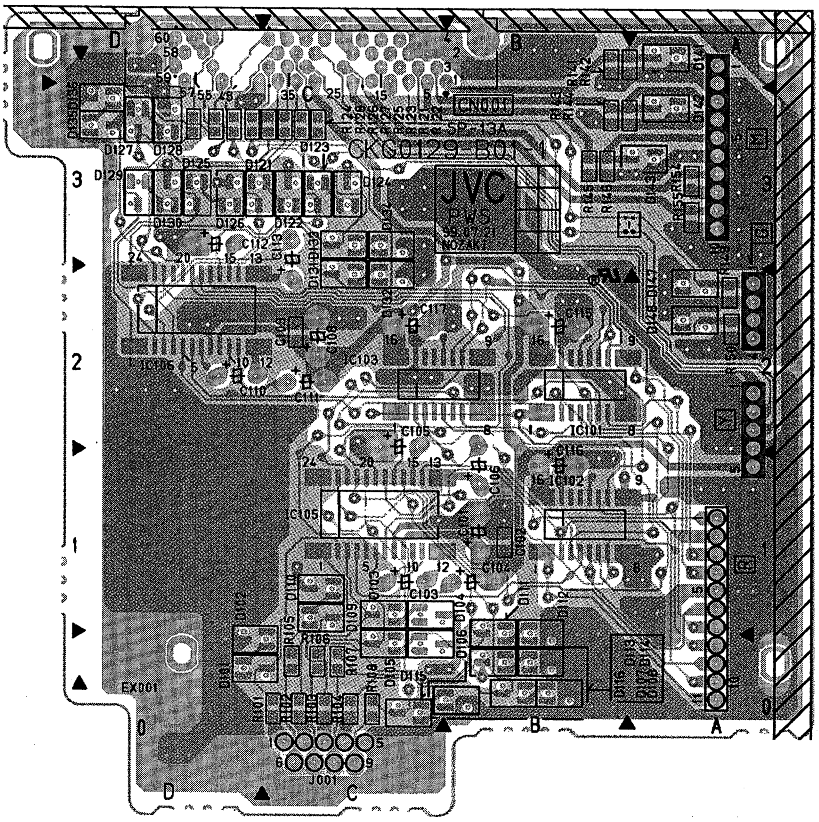
[FILTER PWB PATTERN]


H1
H2
H3
充電部
LIVE
SP-13A
CKG0123-B01-1
JVC
PWS
99.7.13
KOBAYASHI
LF901
LF902
LF903
C903
C904
250V 10A
F901

[COMB PWB PATTERN]


D
C
B
A
4
3
2
1
0
CKC0110-C01
JVC
SP-13A
IC001
IC002
IC003
C017
C018
C019
R009
L004
S004

[INTERFACE PWB PATTERN]


D
C
B
A
3
2
1
0
CN001
CKC0129-B01
JVC
PWS
SP-13A
IC101
IC102
IC103
IC105
IC106
C103
C105
C110
C111
C112
C113
D121
D122
D123
D124
D125
D127
D128
D129
D130
R105
R106
EX001
J001

PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied .
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied .

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% 0%

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USING P.W. BOARD & REMOTE CONTROL UNIT

Model / P.W.B ASS'Y	GD-V4200PZW GD-V4200PZW-G
DIGITAL P.W.B	FX-1117A
CONTROL P.W.B	FX-4064A
COMB P.W.B	FX-5020A
TERMINAL P.W.B	FX-6065A
SENSOR P.W.B	FX-7008A
INTERFACE P.W.B	FX-7009A
AV P.W.B	FX-8011A
AUDIO P.W.B	FX-8013A
REMOTE P.W.B	FX-8014A
FILTER P.W.B	FX-9063A
REMOTE CONTROL UNIT	RM-C575-1

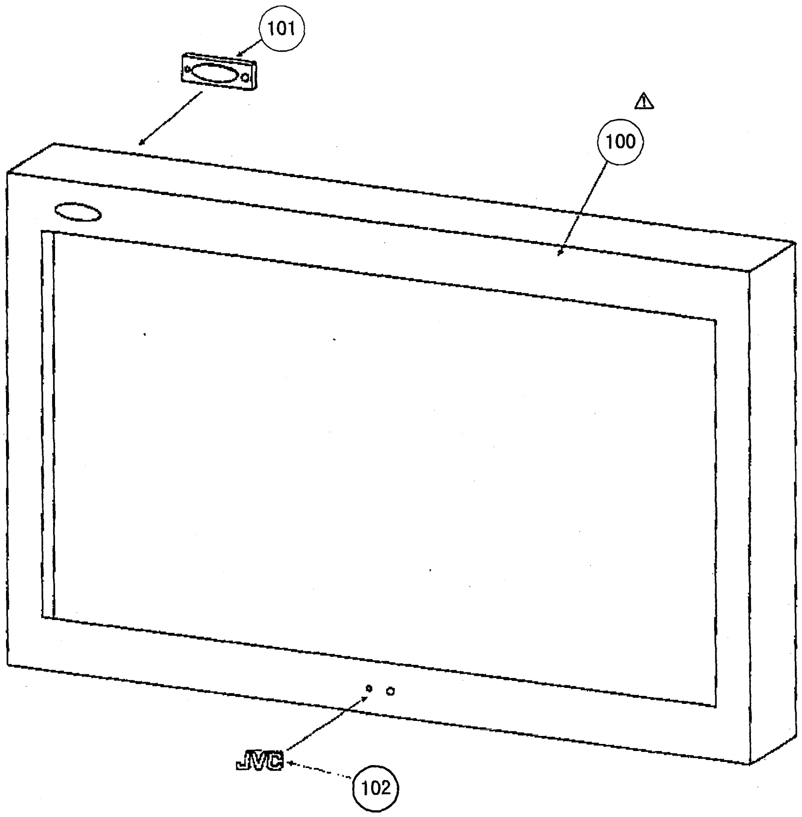
EXPLODED VIEW PARTS LIST

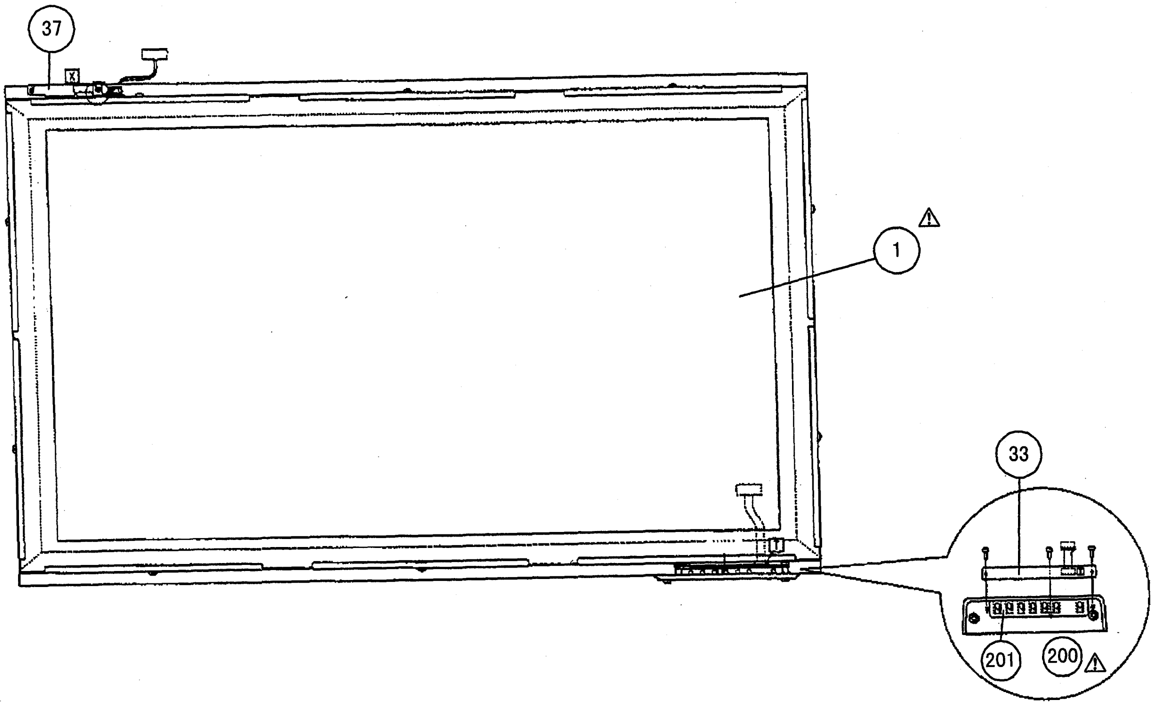
⚠ Ref.No.	Part No.	Part Name	Description	Local
⚠ 1	LC30941-001A	FRONT FILTER		
⚠ 2	QLE0004-001	PDP PANEL		
3	QYSPSPD5010Z	SCREW	×4	
4	LC10541-001B	REAR COVER(L)		
5	QAR0097-001	FAN MOTOR	×4	
6	LC40587-001A	SCREW	×8	
7	QAS0011-002	SPEAKER	×2	
8	QYSPSP3008Z	SCREW	×4	
⚠ 9	QNC0078-001	AC INLET(NOISE)		
⚠ 10	QSW0699-001	SEESAW SWITCH		
11	LC20474-001A	TERMINAL PANEL		
12	LC10675-001A	REAR COVER		
13	QYSPSPD3008M	SCREW	×18	
⚠ 14	LC20453-001A	ROLL R LABEL	GD-V4200PZW	
⚠ 14	LC20453-002A	ROLL R LABEL	GD-V4200PZW-G	
⚠ 15	LC20417-001B	INSULATOR(A)		
⚠ 16	LC40528-001A	INSULATOR(A)		
17	QQR0945-001	FERRITE CORE		
⚠ 18	QQR0491-001	FILTER	×7	
⚠ 19	LC30959-001B	SPACER(A)		
⚠ 20	LC30960-001B	SPACER(B)		
⚠ 21	QAL0206-001	POWER UNIT ASSY		
⚠ 22	LC10538-001C	BACK FLAME	×2	
23	LC31038-001A	FCC LABEL	GD-V4200PZW	
23	LC31038-002A	FCC LABEL	GD-V4200PZW-G	
24	QYSPSPD3008M	SCREW	×6	
25	LC20365-001C	INLET PANEL		
26	QYSSSP3010M	SCREW	×2	
27	QNB0036-001	RETAINER	×2	
28	QYSPSPD3008M	SCREW	×3	
29	QYSBSF3012M	TAPPING SCREW	×2	
30	------------	INTERFACE PWB AS	FX-7009A	
31	------------	AV PWB ASSY	FX-8011A	
32	------------	AUDIO PWB ASSY	FX-8013A	
33	------------	CONTROL PWB ASSY	FX-4064A	
34	------------	COMB PWB ASSY	FX-5020A	
35	------------	TERMINAL PWB ASS	FX-6065A	
36	------------	REMOTE PWB ASSY	FX-8014A	
37	------------	SENSOR PWB ASSY	FX-7008A	
38	------------	FILTER PWB ASSY	FX-9063A	
39	------------	DIGITAL PWB ASSY	FX-1117A	
40	QYSPSPD3008M	SCREW	×3	
41	QYSBSF3012M	TAPPING SCREW	×15	
42	QYSPSPD3008Z	SCREW	×16	
⚠ 100	LC10528-001C	F.PANEL ASSY	Inc.No.101~102 GD-V4200PZW	
⚠ 100	LC10528-003B	F.PANEL ASSY	Inc.No.101~102 GD-V4200PZW-G	
101	LC40454-001C	REMOCON WINDOW		
102	PGD30011-2	JVC MARK		
⚠ 200	LC20358-001B	CONTROL BASE ASS	Inc.No.201 GD-V4200PZW	
⚠ 200	LC20358-002A	CONTROL BASE ASS	Inc.No.201 GD-V4200PZW-G	
201	LC30852-001A	CONTROL SHEET		

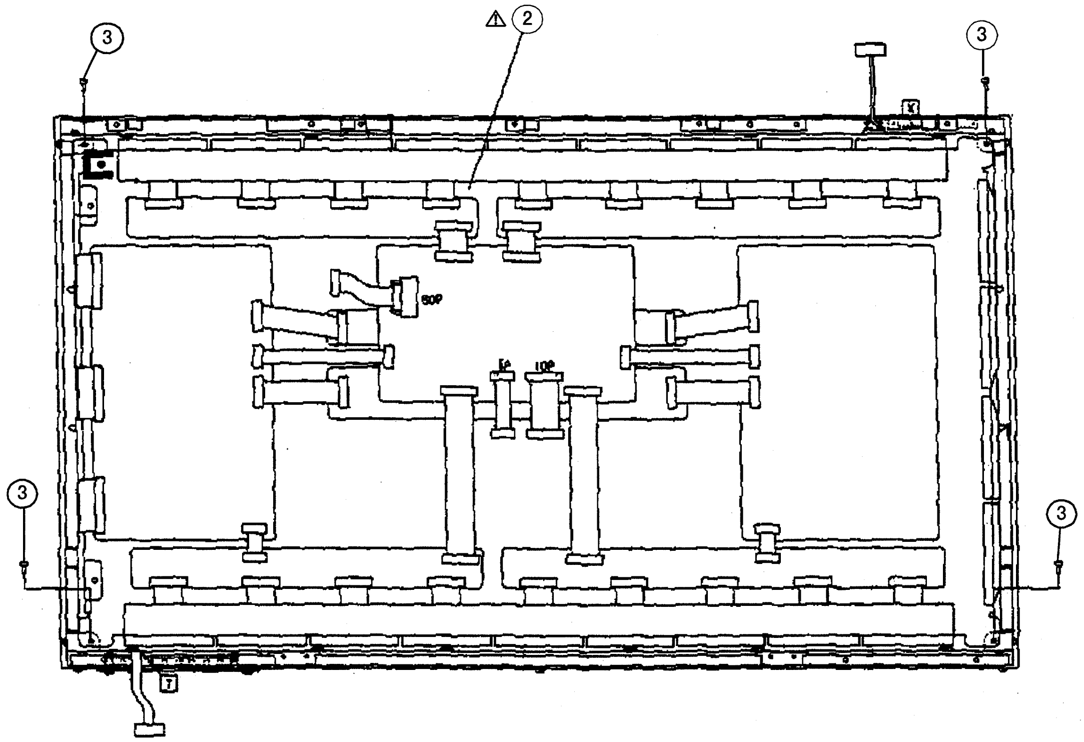
REMOTE CONTROL UNIT PARTS LIST(RM-C575-1)

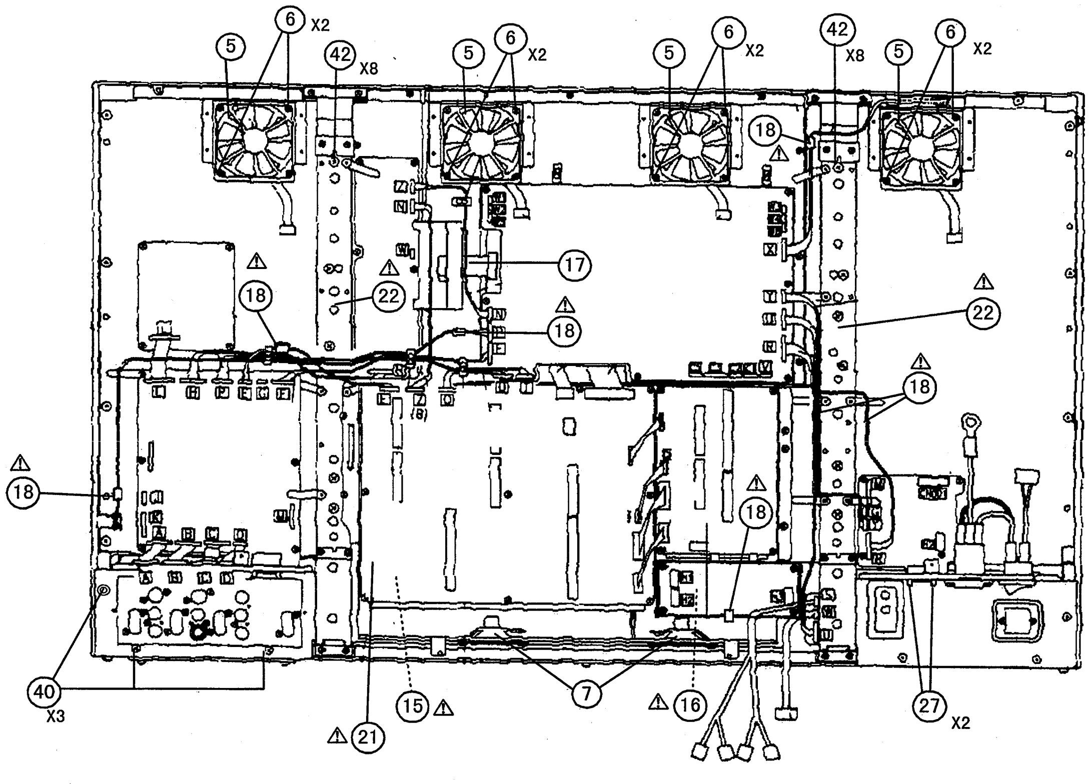
⚠ Ref.No.	Part No.	Part Name.	Description	Local
	BAH110268A	BATTERY COVER		

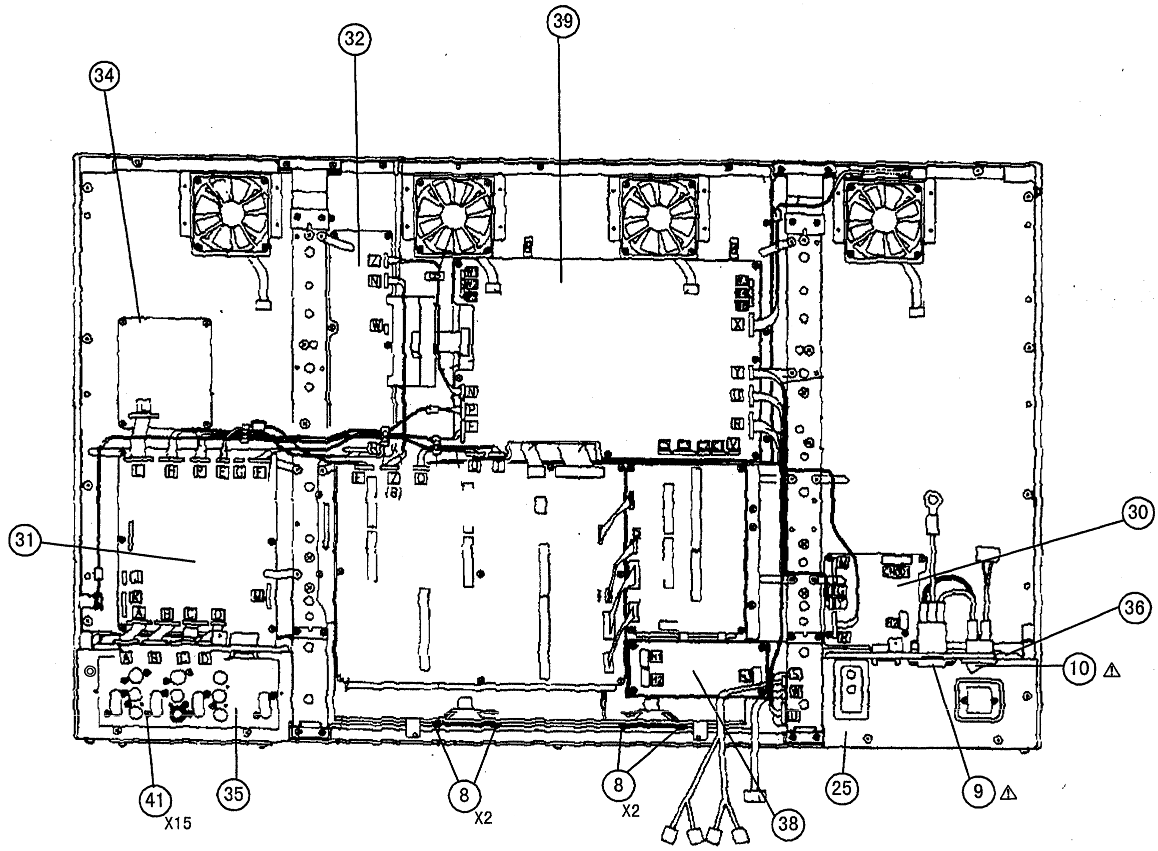
EXPLODED VIEW

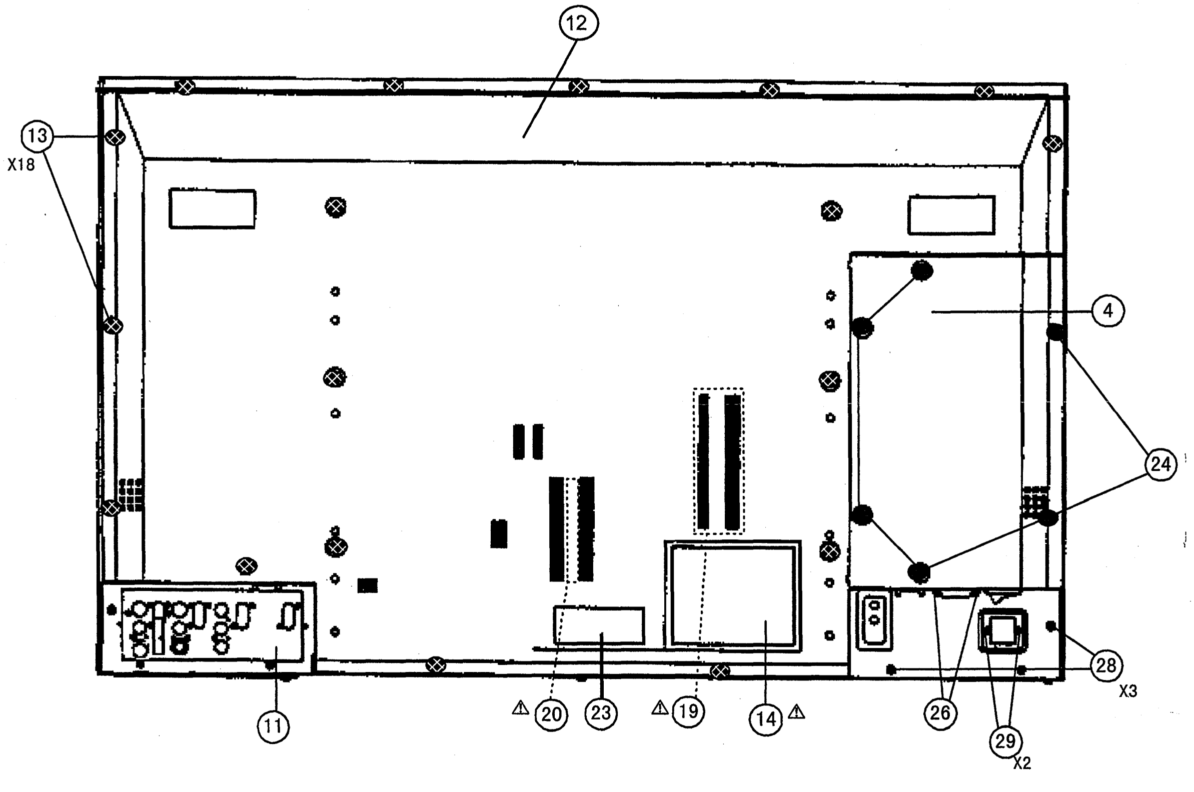

101
⚠
100
JVC
102


37
X
⚠
1
33
Y
201
200
⚠


⚠②
③
③
③
③
80P
10P


⑥ X2
⑤
㊷ X8
⑤
⑥ X2
⑤
⑥ X2
㊷ X8
⑤
⑥ X2
⑱
⚠
⚠
⚠
⑰
⑱
⚠
㉒
⚠
⑱
⚠
㉒
⚠
⑱
⚠
⑱
⚠
⑱
㊵ X3
⑮ ⚠
⑦
⚠ ⑯
⚠ ㉑
㉗ X2


10 ⚠
X15
X2
X2
9 ⚠


X18
X3
⚠ 20
⚠ 19
14 ⚠
X2

PRINTED WIRING BOARD PARTS LIST

DIGITAL P.W. BOARD ASS'Y (FX-1117A)

RESISTOR

⚠ Symbol No.	Part No.	Part Name	Description	Local
R1102-03	NRSA63J-223X	MG R	22kΩ 1/16W	J
R1104	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
R1105	NRSA63J-391X	MG R	390Ω 1/16W	J
R1106	NRSA63J-102X	MG R	1kΩ 1/16W	J
R1108	NRSA63J-391X	MG R	390Ω 1/16W	J
R1109	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
R1111	NRSA63J-102X	MG R	1kΩ 1/16W	J
R1112	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
R1114-15	NRSA63J-223X	MG R	22kΩ 1/16W	J
R1116	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
R1117	NRSA63J-391X	MG R	390Ω 1/16W	J
R1118	NRSA63J-102X	MG R	1kΩ 1/16W	J
R1120	NRSA63J-391X	MG R	390Ω 1/16W	J
R1121	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
R1123	NRSA63J-102X	MG R	1kΩ 1/16W	J
R1124	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
R1126-27	NRSA63J-223X	MG R	22kΩ 1/16W	J
R1128	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
R1129	NRSA63J-391X	MG R	390Ω 1/16W	J
R1130	NRSA63J-102X	MG R	1kΩ 1/16W	J
R1132	NRSA63J-391X	MG R	390Ω 1/16W	J
R1133	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
R1135	NRSA63J-102X	MG R	1kΩ 1/16W	J
R1136	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
R1137	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1138-40	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
R1144	NRSA63J-152X	MG R	1.5kΩ 1/16W	J
R1145-47	NRSA63J-681X	MG R	680Ω 1/16W	J
R1148-49	NRSA63J-682X	MG R	6.8kΩ 1/16W	J
R1150	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1151-52	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
R1153-54	NRSA63J-101X	MG R	100Ω 1/16W	J
R1155-56	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
R1157	NRSA63J-153X	MG R	15kΩ 1/16W	J
R1158	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1159	NRSA63J-123X	MG R	12kΩ 1/16W	J
R1160	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1161	NRSA63J-393X	MG R	39kΩ 1/16W	J
R1162-63	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1164	NRSA63J-223X	MG R	22kΩ 1/16W	J
R1165	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1166	NRSA63J-223X	MG R	22kΩ 1/16W	J
R1167	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
R1168	NRSA63J-474X	MG R	470kΩ 1/16W	J
R1169	NRSA63J-683X	MG R	68kΩ 1/16W	J
R1170	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1171	NRSA63J-822X	MG R	8.2kΩ 1/16W	J
R1172	NRSA63J-272X	MG R	2.7kΩ 1/16W	J
R1173-74	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1175	NRSA63J-683X	MG R	68kΩ 1/16W	J
R1176-78	NRSA63J-822X	MG R	8.2kΩ 1/16W	J
R1179	NRSA63J-272X	MG R	2.7kΩ 1/16W	J
R1180	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
R1181-82	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
R1183	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
R1184	NRSA63J-682X	MG R	6.8kΩ 1/16W	J
R1185-86	NRSA63J-101X	MG R	100Ω 1/16W	J
R1191	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1192	NRSA63J-123X	MG R	12kΩ 1/16W	J
R1193	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
R1196	NRSA63J-223X	MG R	22kΩ 1/16W	J
R1197-99	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
R1200	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
R1201	NRSA63J-103X	MG R	10kΩ 1/16W	J

RESISTOR

Symbol No.	Part No.	Part Name	Description	Local
R1202-03	NRSA63J-101X	MG R	100Ω 1/16W	J
R1204-09	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1211-13	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1214-17	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
R1218	NRSA63J-562X	MG R	5.6kΩ 1/16W	J
R1219-21	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
R1223	NRSA63J-101X	MG R	100Ω 1/16W	J
R1225	NRSA63J-102X	MG R	1kΩ 1/16W	J
R1226	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
R1227-28	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1301-03	NRSA63J-101X	MG R	100Ω 1/16W	J
R1304-05	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1306	NRSA63J-221X	MG R	220Ω 1/16W	J
R1307	NRSA63J-100X	MG R	10Ω 1/16W	J
R1308	NRS181J-820X	MG R	82Ω 1/8W	J
R1309	NRSA63J-821X	MG R	820Ω 1/16W	J
R1311-12	NRSA63J-101X	MG R	100Ω 1/16W	J
R1313	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1314	NRS181J-100X	MG R	10Ω 1/8W	J
R1315	NRSA63J-224X	MG R	220kΩ 1/16W	J
R1316-17	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
R1319	NRSA63J-474X	MG R	470kΩ 1/16W	J
R1320-21	NRZ0014-103X	CHIP NW RESISTOR		
R1401	NRSA63J-224X	MG R	220kΩ 1/16W	J
R1402-04	NRSA63J-101X	MG R	100Ω 1/16W	J
R1405-06	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1407	NRSA63J-221X	MG R	220Ω 1/16W	J
R1408	NRSA63J-100X	MG R	10Ω 1/16W	J
R1409	NRS181J-820X	MG R	82Ω 1/8W	J
R1410	NRSA63J-821X	MG R	820Ω 1/16W	J
R1411	NRS181J-100X	MG R	10Ω 1/8W	J
R1412-13	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
R1414-15	NRZ0014-0R0X	CHIP NW RESISTOR		
R1416-17	NRSA63J-101X	MG R	100Ω 1/16W	J
R1419	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
R1421	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1423	NRSA63J-474X	MG R	470kΩ 1/16W	J
R1425	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
R1426	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
R1429	NRSA63J-104X	MG R	100kΩ 1/16W	J
R1430	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1432	NRSA63J-123X	MG R	12kΩ 1/16W	J
R1435	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
R1437-42	NRZ0014-103X	CHIP NW RESISTOR		
R1501-04	NRSA63J-122X	MG R	1.2kΩ 1/16W	J
R1505	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
R1506	NRSA63J-101X	MG R	100Ω 1/16W	J
R1507	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
R1508-09	NRSA63J-101X	MG R	100Ω 1/16W	J
R1510-13	NRZ0014-101X	NETW.R		
R1516-17	NRZ0014-101X	NETW.R		
R1519-20	NRZ0014-101X	NETW.R		
R1523-25	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
R1526	QRE141J-470Y	C R	47Ω 1/4W	J
R1527-30	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
R1531-33	NRSA63J-101X	MG R	100Ω 1/16W	J
R1534	NRZ0014-101X	NETW.R		
R1535-36	NRSA63J-101X	MG R	100Ω 1/16W	J
R1538-39	NRZ0014-103X	CHIP NW RESISTOR		
R1540-44	NRSA63J-101X	MG R	100Ω 1/16W	J
R1552-62	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
R1564	NRZ0014-103X	CHIP NW RESISTOR		
R1565-66	NRSA63J-103X	MG R	10kΩ 1/16W	J
R1567	NRZ0014-101X	NETW.R		

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R1568-69	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1570	NRSA63J-472X	MG R	4.7kΩ 1/16W J	
	R1571	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1572-76	NRS181J-331X	MG R	330Ω 1/8W J	
	R1579	NRSA63J-124X	MG R	120kΩ 1/16W J	
	R1580	NRSA63J-472X	MG R	4.7kΩ 1/16W J	
	R1581	NRSA63J-102X	MG R	1kΩ 1/16W J	
	R1583	NRSA63J-103X	MG R	10kΩ 1/16W J	
	R1601	NRSA63J-393X	MG R	39kΩ 1/16W J	
	R1602-06	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1607-08	NRSA63J-103X	MG R	10kΩ 1/16W J	
	R1609	NRZ0014-103X	CHIP NW RESISTOR		
	R1610	NRSA63J-103X	MG R	10kΩ 1/16W J	
	R1611-13	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1614-17	NRSA63J-223X	MG R	22kΩ 1/16W J	
	R1618-19	NRSA63J-103X	MG R	10kΩ 1/16W J	
	R1620-21	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1622	NRSA63J-0R0X	MG R	0.0Ω 1/16W J	
	R1623-34	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1635-38	NRSA63J-472X	MG R	4.7kΩ 1/16W J	
	R1639	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1640	NRSA63J-472X	MG R	4.7kΩ 1/16W J	
	R1641	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1642	NRSA63J-151X	MG R	150Ω 1/16W J	
	R1643	NRSA63J-102X	MG R	1kΩ 1/16W J	
	R1644-45	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1646-47	NRSA63J-472X	MG R	4.7kΩ 1/16W J	
	R1648-62	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1663	NRSA63J-104X	MG R	100kΩ 1/16W J	
	R1664-65	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1666-67	NRSA63J-472X	MG R	4.7kΩ 1/16W J	
	R1668-69	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1670	NRSA63J-472X	MG R	4.7kΩ 1/16W J	
	R1671-91	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1692-93	NRSA63J-472X	MG R	4.7kΩ 1/16W J	
	R1694-95	NRZ0014-103X	CHIP NW RESISTOR		
	R1696-99	NRSA63J-472X	MG R	4.7kΩ 1/16W J	
	R1701	NRSA63J-392X	MG R	3.9kΩ 1/16W J	
	R1702	NRSA63J-682X	MG R	6.8kΩ 1/16W J	
	R1703	NRSA63J-222X	MG R	2.2kΩ 1/16W J	
	R1704	NRSA63J-331X	MG R	330Ω 1/16W J	
	R1706	NRSA63J-331X	MG R	330Ω 1/16W J	
	R1707	NRSA63J-472X	MG R	4.7kΩ 1/16W J	
	R1708	NRSA63J-392X	MG R	3.9kΩ 1/16W J	
	R1709	NRSA63J-682X	MG R	6.8kΩ 1/16W J	
	R1710	NRSA63J-222X	MG R	2.2kΩ 1/16W J	
	R1711	NRSA63J-331X	MG R	330Ω 1/16W J	
	R1713	NRSA63J-331X	MG R	330Ω 1/16W J	
	R1714	NRSA63J-472X	MG R	4.7kΩ 1/16W J	
	R1715	NRSA63J-392X	MG R	3.9kΩ 1/16W J	
	R1716	NRSA63J-682X	MG R	6.8kΩ 1/16W J	
	R1717	NRSA63J-222X	MG R	2.2kΩ 1/16W J	
	R1718	NRSA63J-331X	MG R	330Ω 1/16W J	
	R1720	NRSA63J-331X	MG R	330Ω 1/16W J	
	R1721	NRSA63J-472X	MG R	4.7kΩ 1/16W J	
	R1722	NRSA63J-152X	MG R	1.5kΩ 1/16W J	
	R1723-25	NRSA63J-681X	MG R	680Ω 1/16W J	
	R1726-27	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1728-29	NRSA63J-682X	MG R	6.8kΩ 1/16W J	
	R1730-38	NRSA63J-222X	MG R	2.2kΩ 1/16W J	
	R1739	NRSA63J-562X	MG R	5.6kΩ 1/16W J	
	R1740-45	NRSA63J-222X	MG R	2.2kΩ 1/16W J	
	R1746	NRSA63J-103X	MG R	10kΩ 1/16W J	
	R1747	NRSA63J-102X	MG R	1kΩ 1/16W J	

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R1748	NRSA63J-332X	MG R	3.3kΩ 1/16W J	
	R1801	NRS181J-100X	MG R	10Ω 1/8W J	
	R1802	NRSA63J-474X	MG R	470kΩ 1/16W J	
	R1803	NRSA63J-224X	MG R	220kΩ 1/16W J	
	R1804-06	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1807-08	NRSA63J-103X	MG R	10kΩ 1/16W J	
	R1809	NRSA63J-221X	MG R	220Ω 1/16W J	
	R1810	NRSA63J-100X	MG R	10Ω 1/16W J	
	R1811	NRSA63J-821X	MG R	820Ω 1/16W J	
	R1812	NRS181J-820X	MG R	82Ω 1/8W J	
	R1813	NRSA63J-0R0X	MG R	0.0Ω 1/16W J	
	R1814	NRSA63J-102X	MG R	1kΩ 1/16W J	
	R1815-16	NRSA63J-101X	MG R	100Ω 1/16W J	
	R1817-18	NRZ0014-103X	CHIP NW RESISTOR		

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C1101	NEH71CM-476X	E CAP.	47μF 16V M	
	C1102	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1103-05	NEH71CM-476X	E CAP.	47μF 16V M	
	C1106	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1107	NEH71CM-476X	E CAP.	47μF 16V M	
	C1108-10	NEN51AM-336X	CHIP AL BP E CAP	33μF 10V M	
	C1111-13	NEH71CM-476X	E CAP.	47μF 16V M	
	C1114-16	NEH71HM-225X	E CAP.	2.2μF 50V M	
	C1117-18	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1120	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1121	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1122	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1123-24	NDC31HJ-330X	C CAP.	33pF 50V J	
	C1125-26	NEH71CM-476X	E CAP.	47μF 16V M	
	C1127	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1128	NDC31HJ-101X	C CAP.	100pF 50V J	
	C1129	NDC31HJ-470X	C CAP.	47pF 50V J	
	C1131	NEH71HM-474X	E CAP.	0.47μF 50V M	
	C1132	NEH71CM-476X	E CAP.	47μF 16V M	
	C1133	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1134-35	NDC31HJ-101X	C CAP.	100pF 50V J	
	C1136	NEH71CM-476X	E CAP.	47μF 16V M	
	C1137	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1138	NDC31HJ-101X	C CAP.	100pF 50V J	
	C1139	NEH71HM-105X	E CAP.	1μF 50V M	
	C1140	NDC31HJ-101X	C CAP.	100pF 50V J	
	C1141	NEH71CM-476X	E CAP.	47μF 16V M	
	C1142	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1143	NEH71CM-476X	E CAP.	47μF 16V M	
	C1144	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1145	NDC31HJ-330X	C CAP.	33pF 50V J	
	C1201	NEH71CM-476X	E CAP.	47μF 16V M	
	C1202	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1203	NEH71HM-105X	E CAP.	1μF 50V M	
	C1204	NEH71CM-476X	E CAP.	47μF 16V M	
	C1205	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1206	NEH71HM-105X	E CAP.	1μF 50V M	
	C1207	NEH71CM-476X	E CAP.	47μF 16V M	
	C1208	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1209	NEH71HM-105X	E CAP.	1μF 50V M	
	C1210	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1211-18	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1219	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1221-23	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1224	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1225-26	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1227	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1228-29	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1230	NEH70JM-107X	E CAP.	100μF 6.3V M	

△	Symbol No.	Part No.	Part Name	Description	Local

CAPACITOR

△	Symbol No.	Part No.	Part Name	Description	Local
	C1231-42	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1244-57	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1259-62	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1263	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1264	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1266-68	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1270-72	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1301	NEH71CM-476X	E CAP.	47μF 16V M	
	C1302	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1303	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1304	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1305	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1306	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1307	NDC31HJ-101X	C CAP.	100pF 50V J	
	C1308	NCS21HJ-152X	C CAP.	1500pF 50V J	
	C1309	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1310-13	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1314	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1315-18	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1319	NCS21HJ-152X	C CAP.	1500pF 50V J	
	C1401	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1402	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1403	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1404	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1405-24	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1426-29	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1430	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1431	NEH71CM-476X	E CAP.	47μF 16V M	
	C1432	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1433	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1434	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1435	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1436	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1437	NDC31HJ-101X	C CAP.	100pF 50V J	
	C1438	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1439-42	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1443	NCS21HJ-152X	C CAP.	1500pF 50V J	
	C1444	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1445-47	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1449	NCS21HJ-152X	C CAP.	1500pF 50V J	
	C1450	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1451	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1452	NDC31HJ-330X	C CAP.	33pF 50V J	
	C1454	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1501	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1502	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1503	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1504	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1505-20	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1521	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1522	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1523	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1524-30	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1601	NEH71CM-476X	E CAP.	47μF 16V M	
	C1602-03	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1604	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1605-06	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1607	NEH71CM-476X	E CAP.	47μF 16V M	
	C1608-09	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1610	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1611	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1612	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1613-15	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1616	NEH70JM-107X	E CAP.	100μF 6.3V M	

△	Symbol No.	Part No.	Part Name	Description	Local

CAPACITOR

△	Symbol No.	Part No.	Part Name	Description	Local
	C1617-18	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1619	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1620	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1621	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1622-26	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1627	NCF11EZ-105X	C CAP.	1μF 25V Z	
	C1628	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1630-33	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1634	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1635	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1636	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1638-43	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1644	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1645	NDC31HJ-271X	CHIP C CAPACITOR	270pF 50V J	
	C1646	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1647	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1648-49	NEH71CM-476X	E CAP.	47μF 16V M	
	C1650	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1651-55	NEH71CM-476X	E CAP.	47μF 16V M	
	C1656-58	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1701	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1702-04	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1705	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1706	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1707	NEH71CM-476X	E CAP.	47μF 16V M	
	C1708	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1709	NEH71HM-105X	E CAP.	1μF 50V M	
	C1710	NEH71CM-476X	E CAP.	47μF 16V M	
	C1711	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1712-14	NEN51AM-336X	CHIP AL BP E CAP	33μF 10V M	
	C1715-20	NEH71CM-476X	E CAP.	47μF 16V M	
	C1721-23	NEH71HM-225X	E CAP.	2.2μF 50V M	
	C1724	NEH71CM-476X	E CAP.	47μF 16V M	
	C1725	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1726	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1727	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1728	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1729	NEH71CM-476X	E CAP.	47μF 16V M	
	C1730	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1731	NEH71HM-105X	E CAP.	1μF 50V M	
	C1732	NEH71CM-476X	E CAP.	47μF 16V M	
	C1733	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1734	NEH71HM-105X	E CAP.	1μF 50V M	
	C1735	NEH71CM-476X	E CAP.	47μF 16V M	
	C1736	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1737	NEH71HM-105X	E CAP.	1μF 50V M	
	C1738	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1739-41	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1742	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1743-52	NCF31CZ-104X	C CAP.	0.1μF 16V Z	
	C1754-56	NDC31HJ-470X	C CAP.	47pF 50V J	
	C1801	NEH71CM-476X	E CAP.	47μF 16V M	
	C1802	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1803	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1804	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1805	NEH70JM-107X	E CAP.	100μF 6.3V M	
	C1806	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1807	NDC31HJ-101X	C CAP.	100pF 50V J	
	C1808-09	NCS21HJ-152X	C CAP.	1500pF 50V J	
	C1810	NCB31HK-103X	C CAP.	0.01μF 50V K	
	C1811-17	NCF31CZ-104X	C CAP.	0.1μF 16V Z	

TRANSFORMER

△	Symbol No.	Part No.	Part Name	Description	Local
	T1101	NQR0362-001X	LPF		

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description	Local
	T1102	NQR0364-001X	LPF		
	T1103	NQR0362-001X	LPF		
	T1104	NQR0364-001X	LPF		
	T1105	NQR0362-001X	LPF		
	T1106	NQR0364-001X	LPF		
	T1107-09	NQR0363-001X	LPF		
	T1701-03	NQR0361-001X	LPF		

DIODE

⚠	Symbol No.	Part No.	Part Name	Description	Local
	D1101	MA111-X	SI.DIODE		
	D1601-10	MA3056/M/-X	ZENER DIODE		
	D1611	MA788-X	S B DIODE		

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q1101	2SC2778/C/-X	SI.TRANSISTOR		
	Q1102-03	2SA1022/BC/-X	SI.TRANSISTOR		
	Q1104	2SC2778/C/-X	SI.TRANSISTOR		
	Q1105-06	2SA1022/BC/-X	SI.TRANSISTOR		
	Q1107	2SC2778/C/-X	SI.TRANSISTOR		
	Q1108-09	2SA1022/BC/-X	SI.TRANSISTOR		
	Q1110	DTC363TK-X	DIGI.TRANSISTOR		
	Q1111-13	2SC2778/C/-X	SI.TRANSISTOR		
	Q1114	DTC363TK-X	DIGI.TRANSISTOR		
	Q1115	2SC2778/C/-X	SI.TRANSISTOR		
	Q1117	2SC2778/C/-X	SI.TRANSISTOR		
	Q1118	IMX1-W	TRANSISTOR		
	Q1602-06	DTA144TKA-X	DIGI.TRANSISTOR		
	Q1607	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q1701	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q1702	2SA1022/BC/-X	SI.TRANSISTOR		
	Q1703	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q1704	2SA1022/BC/-X	SI.TRANSISTOR		
	Q1705	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q1706	2SA1022/BC/-X	SI.TRANSISTOR		
	Q1707	IMX1-W	TRANSISTOR		

IC

⚠	Symbol No.	Part No.	Part Name	Description	Local
	IC1101	AN5862S-W	I.C.(MONO-ANA)		
	IC1102	M52327SP	I.C.(MONO-ANA)		
	IC1103	M62399FP-X	I C		
	IC1104	TC7W04F-X	I.C.(DIGI-MOS)		
	IC1105-06	TC4538BF/N/-XE	I.C.(DIGI-MOS)		
	IC1107	TC4053BF/N/-XE	I.C.(DIGI-MOS)		
	IC1108-09	UPC358G-W	I.C.(MONO-ANA)		
	IC1110	M62399FP-X	I C		
	IC1111	M52759SP	I C		
	IC1112	M5218AFP-W	I.C.(MONO-ANA)		
	IC1113	TC7W04F-X	I.C.(DIGI-MOS)		
	IC1201-03	MB40528PF-X	I C		
	IC1204-06	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1207-08	TC74VHC157F-X	I C		
	IC1209	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1210	JCC5025	I C		
	IC1211-12	TC74VHC157F-X	I C		
	IC1213	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1214	GMVLD8CQ4-30	I C		
	IC1215-18	UPD42280GU-30	I.C.(S-RAM)		
	IC1219	TC7SET04FU-X	I C		
	IC1220-21	TC74VHC157F-X	I C		
	IC1222	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1223-24	TC74VHC157F-X	I C		
	IC1225	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1301	TA78L05F-W	I.C.(MONO-ANA)		
	IC1302	ICS1522M-X	IC		
	IC1303	TC7WU04F-X	I.C.(ECL-LOGIC)		
	IC1305	TC74ACT74F-XE	I C		
	IC1306	JLC1562BF-X	I.C.(DIGI-MOS)		
	IC1307	TC74VHC157F-X	I C		
	IC1401	BA033FP-X	I.C.(MONO-ANA)		

IC

⚠	Symbol No.	Part No.	Part Name	Description	Local
	IC1304	TC74AC244F-X	I C		
	IC1402-07	TC74VHC157F-X	I C		
	IC1408	MN7C006T9D	I C		
	IC1409-12	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1413	TA78L05F-W	I.C.(MONO-ANA)		
	IC1414	ICS1522M-X	IC		
	IC1415	TC7WU04F-X	I.C.(ECL-LOGIC)		
	IC1416-17	TC74VHC157F-X	I C		
	IC1418	TC74AC244F-X	I C		
	IC1419	TC7WU04F-X	I.C.(ECL-LOGIC)		
	IC1421	TC74HC4538AF-X	I.C.(DIGI-MOS)		
	IC1501	EPF10K50VRC2403	I C		
	IC1502	EPC1PC8-GDV4200	I C	SERVICE	
	IC1503	UPD485505G-25-X	I.C.(S-RAM)		
	IC1504-08	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1509	TC74AC244F-X	I C		
	IC1510	JLC1562BF-X	I.C.(DIGI-MOS)		
	IC1511	BA033FP-X	I.C.(MONO-ANA)		
	IC1601	MB90F553APF-P99	I C	SERVICE	
	IC1602	AT24C32-GDV4200	I.C. (EP-ROM)	SERVICE	
	IC1603	MB90096PF-190-X	I C		
	IC1604	TC74HC02AF-X	I.C.(DIGI-MOS)		
	IC1605	TC74HC08AF-X	I C		
	IC1606	TC7W04F-X	I.C.(DIGI-MOS)		
	IC1607	TC4053BF/N/-XE	I.C.(DIGI-MOS)		
	IC1608	JLC1563M-X	I.C.(DIGI-MOS)		
	IC1609	TC4053BF/N/-XE	I.C.(DIGI-MOS)		
	IC1610	JLC1563M-X	I.C.(DIGI-MOS)		
	IC1611	JLC1562BF-X	I.C.(DIGI-MOS)		
	IC1612	DS1621S-X	I C		
	IC1613	MN1382/Q/-X	I.C.(MONO-ANA)		
	IC1614	BA05FP-X	I.C.(MONO-ANA)		
	IC1615	BA12FP-X	I.C.(MONO-ANA)		
	IC1616	BA05FP-X	I.C.(MONO-ANA)		
	IC1621	TC7W08F-X	I.C.(ECL-LOGIC)		
	IC1701-03	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1704	MB40978PFQ	I.C.(DIGI-OTHER)		
	IC1705	M52327SP	I.C.(MONO-ANA)		
	IC1706	M62399FP-X	I C		
	IC1707-09	MB40558PF-W	I.C.(DIGI-OTHER)		
	IC1710-12	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1713-18	TC74VHC157F-X	I C		
	IC1719-21	TC74ACT574F-X	I.C.(DIGI-MOS)		
	IC1722	M5218AFP-W	I.C.(MONO-ANA)		
	IC1801	TA78L05F-W	I.C.(MONO-ANA)		
	IC1802	ICS1522M-X	IC		
	IC1803	TC7WU04F-X	I.C.(ECL-LOGIC)		
	IC1804	TC74VHC157F-X	I C		
	IC1805	JLC1562BF-X	I.C.(DIGI-MOS)		
	IC1806	DS1021S-50-X	IC		

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description	Local
	CF1601	CST4.00MGW	CER.RESONATOR		
	CN1101	QGA1209F1-80	W TO B CONNE		
⚠	CP1601	ICP-N75-Y	I.C.PROTECT		
	K1201-02	CE42681-001Y	BEADS CORE		
	K1301	CE42681-001Y	BEADS CORE		
	K1401	CE42681-001Y	BEADS CORE		
	K1501	CE42681-001Y	BEADS CORE		
	K1601	CE42681-001Y	BEADS CORE		
	K1602-20	NRSA63J-0R0X	MG R	0.0Ω 1/16W J	
	K1801	CE42681-001Y	BEADS CORE		
	LC1601	CE42482-103Y	EMI FILTER		
	LC1603	CE42482-103Y	EMI FILTER		
	LC1615	CE42482-103Y	EMI FILTER		
	LC1617	CE42482-103Y	EMI FILTER		
	SK1502	CEMS007-008	I.C.SOCKET		
	SK1602	CEMS007-008	I.C.SOCKET		

CONTROL P.W.BOARD ASS'Y (FX-4064A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	DIODE				
	D4501-07	MA111-X	SI.DIODE		
	OTHERS				
	S4501	QSW0619-003Z	PUSH SWITCH	RIGHT	
	S4502	QSW0619-003Z	PUSH SWITCH	LEFT	
	S4503	QSW0619-003Z	PUSH SWITCH	UP	
	S4504	QSW0619-003Z	PUSH SWITCH	DOWN	
	S4505	QSW0619-003Z	PUSH SWITCH	INPUT	
	S4506	QSW0619-003Z	PUSH SWITCH	MENU	
	S4507	QSW0619-003Z	PUSH SWITCH	POWER	

COMB P.W.BOARD ASS'Y (FX-5020A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R5001	NRSA63J-392X	MG R	3.9kΩ 1/16W	J
	R5003	NRSA63J-331X	MG R	330Ω 1/16W	J
	R5004	NRSA63J-101X	MG R	100Ω 1/16W	J
	R5005	NRSA63J-271X	MG R	270Ω 1/16W	J
	R5007-08	NRSA63J-562X	MG R	5.6kΩ 1/16W	J
	R5009	NRSA63J-273X	MG R	27kΩ 1/16W	J
	CAPACITOR				
	C5001	QENC1EM-106Z	BP E CAP.	10µF 25V	M
	C5002	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C5003	QENC1EM-106Z	BP E CAP.	10µF 25V	M
	C5004	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C5005	QETN1EM-476Z	E CAP.	47µF 25V	M
	C5006-07	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C5008	NDC31HJ-6R0X	CHIP C CAPACITOR	6pF 50V	J
	C5009	QETN1HM-475Z	E CAP.	4.7µF 50V	M
	C5010	NCB31HK-102X	C CAP.	1000pF 50V	K
	C5011	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C5012	QETN1EM-476Z	E CAP.	47µF 25V	M
	C5013	NDC31HJ-100X	C CAP.	10pF 50V	J
	C5015	NCB31HK-102X	C CAP.	1000pF 50V	K
	C5016	QETN1HM-106Z	E CAP.	10µF 50V	M
	C5017	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C5018	QETN1EM-476Z	E CAP.	47µF 25V	M
	C5019	QETN1HM-106Z	E CAP.	10µF 50V	M
	C5020	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C5021	QETN1EM-476Z	E CAP.	47µF 25V	M
	C5023	QENC1EM-106Z	BP E CAP.	10µF 25V	M
	COIL				
	L5001-02	NQL011K-4R7X	COIL	4.7µH	
	L5003	NQL011K-100X	COIL	10µH	
	L5004	NQL011K-4R7X	COIL	4.7µH	
	TRANSISTOR				
	Q5001	2SC3773/3-4/-X	SI.TRANSISTOR		
	IC				
	IC5001	NJM2240D	I C		
	IC5002	JLC1562BN	I.C.(DIGI-MOS)		
	IC5003	TC4053BP/N/	I.C.(DIGI-MOS)		
	IC5101	SBX1745-01	IC		
	OTHERS				
		LC30593-001A-C	SHIELD BASE		

TERMINAL P.W.BOARD ASS'Y (FX-6065A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R6107	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R6108	NRSA63J-563X	MG R	56kΩ 1/16W	J
	R6109	NRSA63J-101X	MG R	100Ω 1/16W	J
	R6110	NRSA63J-562X	MG R	5.6kΩ 1/16W	J
	R6111	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R6112	NRSA63J-104X	MG R	100kΩ 1/16W	J
	R6113-14	NRSA63J-151X	MG R	150Ω 1/16W	J
	R6115	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R6116	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R6117	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R6118	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R6125-26	NRSA63J-151X	MG R	150Ω 1/16W	J
	R6127	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R6128	NRSA63J-563X	MG R	56kΩ 1/16W	J
	R6129	NRSA63J-101X	MG R	100Ω 1/16W	J
	R6130	NRSA63J-562X	MG R	5.6kΩ 1/16W	J
	R6131	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R6132	NRSA63J-104X	MG R	100kΩ 1/16W	J
	R6133	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R6134-35	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R6136-37	NRSA63J-151X	MG R	150Ω 1/16W	J
	R6140-41	NRSA63J-151X	MG R	150Ω 1/16W	J
	R6144-45	NRSA63J-151X	MG R	150Ω 1/16W	J
	R6148	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R6149	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R6150	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R6151	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R6157	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R6158	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R6159	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R6160	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R6171-72	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R6186	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R6187-94	NRSA63J-151X	MG R	150Ω 1/16W	J
	CAPACITOR				
	C6101-02	QEKC1EM-106Z	E CAP.	10µF 25V	M
	C6104	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C6105	QEKC1CM-107Z	E CAP.	100µF 16V	M
	C6106-13	NCB31HK-472X	C CAP.	4700pF 50V	K
	COIL				
	L6101-08	QQL211K-5R6Y	COIL	5.6µH	K
	DIODE				
	D6101-04	MA111-X	SI.DIODE		
	D6118-19	MA3075/M/-X	ZENER DIODE		
	TRANSISTOR				
	Q6001-02	2SC3773/3-4/-X	SI.TRANSISTOR		
	OTHERS				
	EX6001-04	LC40460-001A	EARTH PLATE		
	FL6101-09	NQR0321-001X	EMI FILTER		
	J6001	QMCC006-C01	DIN CONNECTOR		
	J6002	QNZ0417-001	BNC CONNECTOR		
	J6003	QNN0321-001	PIN JACK		
	J6004	QMCC006-C01	DIN CONNECTOR		
	J6005	QNZ0391-001	BNC CONNECTOR		
	J6006	CEMN054-001	PIN JACK		
	J6007	QNN0321-001	PIN JACK		
	J6008	CEMB010-004	BNC CONNECTOR		
	J6009	QNN0321-001	PIN JACK		
	J6011	QNN0321-001	PIN JACK		

SENSOR P.W.BOARD ASS'Y (FX-7008A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R7601	NRSA63J-101X	MG R	100Ω 1/16W	J
	CAPACITOR				
	C7601-09	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	DIODE				
	D7601	GL3ED8	L.E.D.	POWER	
	D7602	SML-210VT-X	L E D(RED)	LED-A	
	D7603	SML-210VT-X	L E D(RED)	LED-B	
	D7604	SML-210VT-X	L E D(RED)	LED-C	
	IC				
	IC7601	GP1U261X	IFR DETECT UNIT		

INTERFACE P.W.BOARD ASS'Y (FX-7009A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R7101-08	NRSA63J-151X	MG R	150Ω 1/16W	J
	R7121-28	NRSA63J-151X	MG R	150Ω 1/16W	J
	R7141-46	NRSA63J-151X	MG R	150Ω 1/16W	J
	R7149-50	NRSA63J-471X	MG R	470Ω 1/16W	J
	R7154-55	NRSA63J-224X	MG R	220kΩ 1/16W	J
	CAPACITOR				
	C7101	QEKC1CM-476Z	E CAP.	47µF 16V	M
	C7102	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C7103-06	QEKC1HM-105Z	E CAP.	1µF 50V	M
	C7108	QEKC1CM-476Z	E CAP.	47µF 16V	M
	C7109	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C7110-13	QEKC1HM-105Z	E CAP.	1µF 50V	M
	C7115-17	QEKC1CM-476Z	E CAP.	47µF 16V	M
	DIODE				
	D7101-16	MA3120/M/-X	ZENER DIODE		
	D7121-36	MA3120/M/-X	ZENER DIODE		
	D7141-43	MA3056/M/-X	ZENER DIODE		
	D7147-48	MA3056/M/-X	ZENER DIODE		
	IC				
	IC7101-03	TC74HC157AF-X	I C		
	IC7105-06	ADM237LJR	I.C.(HYBRID)		
	OTHERS				
	EX7001	LC40460-001A	EARTH PLATE		
	J7001	QNZ0426-001	D CONNECTOR		

AV P.W.BOARD ASS'Y (FX-8011A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R8101	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8103-04	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8107-08	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8109	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8110	NRSA63J-823X	MG R	82kΩ 1/16W	J
	R8111-12	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8114-15	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8116	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8118	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8120	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8121	NRSA63J-183X	MG R	18kΩ 1/16W	J
	R8122	NRSA63J-471X	MG R	470Ω 1/16W	J
	R8123	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8124	NRSA63J-561X	MG R	560Ω 1/16W	J
	R8127	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8129	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	RESISTOR				
	R8130	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8131	NRSA63J-183X	MG R	18kΩ 1/16W	J
	R8132	NRSA63J-471X	MG R	470Ω 1/16W	J
	R8133	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8134	NRSA63J-391X	MG R	390Ω 1/16W	J
	R8137	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8139	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8140	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8141-46	NRSA63J-152X	MG R	1.5kΩ 1/16W	J
	R8147	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R8150	NRSA63J-123X	MG R	12kΩ 1/16W	J
	R8151	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8152	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8153	NRSA63J-104X	MG R	100kΩ 1/16W	J
	R8154	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8155	NRSA63J-333X	MG R	33kΩ 1/16W	J
	R8156	NRSA63J-473X	MG R	47kΩ 1/16W	J
	R8157-60	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8161	NRSA63J-183X	MG R	18kΩ 1/16W	J
	R8163	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8164	NRSA63J-683X	MG R	68kΩ 1/16W	J
	R8165-66	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8167	NRSA63J-333X	MG R	33kΩ 1/16W	J
	R8168	NRSA63J-123X	MG R	12kΩ 1/16W	J
	R8169	NRSA63J-563X	MG R	56kΩ 1/16W	J
	R8170	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8171	NRSA63J-333X	MG R	33kΩ 1/16W	J
	R8172	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8173	NRSA63J-683X	MG R	68kΩ 1/16W	J
	R8174	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R8175	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8176	NRSA63J-183X	MG R	18kΩ 1/16W	J
	R8177	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8178	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8179-82	NRSA63J-100X	MG R	10Ω 1/16W	J
	R8184	NRSA63J-100X	MG R	10Ω 1/16W	J
	R8185	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8186	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8187	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8188	NRSA63J-393X	MG R	39kΩ 1/16W	J
	R8189	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8190	NRSA63J-101X	MG R	100Ω 1/16W	J
	R8191	NRSA63J-221X	MG R	220Ω 1/16W	J
	R8193-94	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8195-98	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8199	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8200	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8201	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8202	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8203	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8204	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8205	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8206	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8207	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8208-11	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8212-14	NRSA63J-123X	MG R	12kΩ 1/16W	J
	R8215	NRSA63J-392X	MG R	3.9kΩ 1/16W	J
	R8216	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8217-18	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8219	NRSA63J-471X	MG R	470Ω 1/16W	J
	R8220	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8221	NRSA63J-471X	MG R	470Ω 1/16W	J
	R8222	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8223	NRSA63J-471X	MG R	470Ω 1/16W	J
	R8224	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8225-27	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8228-29	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8230	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8232	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8234-35	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8237-38	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8239	NRSA63J-222X	MG R	2.2kΩ 1/16W	J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R8241	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8243	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8246	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8247-48	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8249	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8250-51	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8252	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8254-55	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8256	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8258-59	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8260	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8262	NRSA63J-822X	MG R	8.2kΩ 1/16W	J
	R8263-64	NRSA63J-272X	MG R	2.7kΩ 1/16W	J
	R8265	NRSA63J-182X	MG R	1.8kΩ 1/16W	J
	R8266	NRSA63J-272X	MG R	2.7kΩ 1/16W	J
	R8267	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R8268	NRSA63J-152X	MG R	1.5kΩ 1/16W	J
	R8279	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8280	NRSA63J-101X	MG R	100Ω 1/16W	J
	R8282	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8283	NRSA63J-104X	MG R	100kΩ 1/16W	J
	R8284	NRSA63J-224X	MG R	220kΩ 1/16W	J
	R8290-92	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8295	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8296	NRSA63J-183X	MG R	18kΩ 1/16W	J
	R8297	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8298	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R8299	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8300	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8301	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8302-04	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8306	NRSA63J-473X	MG R	47kΩ 1/16W	J
	R8307-08	NRSA63J-560X	MG R	56Ω 1/16W	J
	R8309	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8310	NRSA63J-562X	MG R	5.6kΩ 1/16W	J
	R8311	NRSA63J-104X	MG R	100kΩ 1/16W	J
	R8312	NRSA63J-684X	MG R	680kΩ 1/16W	J
	R8313	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8314-15	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8316	NRSA63J-102X	MG R	1kΩ 1/16W	J
	R8317-18	NRSA63J-223X	MG R	22kΩ 1/16W	J
	R8319	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8320	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8321	NRSA63J-183X	MG R	18kΩ 1/16W	J
	R8322	NRSA63J-103X	MG R	10kΩ 1/16W	J
	R8323-34	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R8335-36	QRE141J-0R0Y	C R	0.0Ω 1/4W	J
	R8401-02	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8403	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8404-05	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8406	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8407-08	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8409	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8410-12	NRSA63J-101X	MG R	100Ω 1/16W	J
	R8501-02	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8503	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8504-05	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8506	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8507-08	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8509	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8510-11	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8512	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8513-14	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8515	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8516-17	NRSA63J-273X	MG R	27kΩ 1/16W	J
	R8518	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8519-24	NRSA63J-151X	MG R	150Ω 1/16W	J
	R8525-26	NRSA63J-471X	MG R	470Ω 1/16W	J
	R8547-48	NRSA63J-472X	MG R	4.7kΩ 1/16W	J
	R8549	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R8550	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8551	NRSA63J-332X	MG R	3.3kΩ 1/16W	J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	R8552	NRSA63J-222X	MG R	2.2kΩ 1/16W	J
	R8553	NRSA63J-153X	MG R	15kΩ 1/16W	J
	R8554	NRSA63J-332X	MG R	3.3kΩ 1/16W	J
	R8555	NRSA63J-0R0X	MG R	0.0Ω 1/16W	J
	R8556-58	NRSA63J-221X	MG R	220Ω 1/16W	J
	R8559-61	NRSA63J-101X	MG R	100Ω 1/16W	J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C8104	NEN51EM-106X	CHIP AL BP E CAP	10µF 25V	M
	C8105-06	NEH71CM-106X	E CAP.	10µF 16V	M
	C8107-08	NEH71HM-105X	E CAP.	1µF 50V	M
	C8109	NEN51EM-106X	CHIP AL BP E CAP	10µF 25V	M
	C8110-11	NEH71CM-106X	E CAP.	10µF 16V	M
	C8112-13	NEH71HM-105X	E CAP.	1µF 50V	M
	C8119-22	NEH71HM-105X	E CAP.	1µF 50V	M
	C8124	NEH71EM-226X	E CAP.	22µF 25V	M
	C8125	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8126	NEH71CM-476X	E CAP.	47µF 16V	M
	C8131	NEH71CM-476X	E CAP.	47µF 16V	M
	C8132	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8133-34	NEN51EM-106X	CHIP AL BP E CAP	10µF 25V	M
	C8135	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8136	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8137	NCB31HK-472X	C CAP.	4700pF 50V	K
	C8138	NCF31CZ-474X	C CAP.	0.47µF 16V	Z
	C8140	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8141	NCB31HK-472X	C CAP.	4700pF 50V	K
	C8142	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8143-44	NDC31HJ-7R0X	C CAP.	7.0pF 50V	J
	C8145-49	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8150	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8151	NEH71CM-476X	E CAP.	47µF 16V	M
	C8152-55	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8156	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8157	NEH71CM-476X	E CAP.	47µF 16V	M
	C8158	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8159	NEH71CM-476X	E CAP.	47µF 16V	M
	C8160	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8161	NEH71CM-476X	E CAP.	47µF 16V	M
	C8162	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8163	NEH71CM-476X	E CAP.	47µF 16V	M
	C8164	NDC31HJ-560X	C CAP.	56pF 50V	J
	C8165-67	NEN51CM-475X	CHIP AL BP E CAP	4.7µF 16V	M
	C8168	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8170	NEH71HM-475X	E CAP.	4.7µF 50V	M
	C8171-72	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8173	NEH71HM-105X	E CAP.	1µF 50V	M
	C8174-75	NEH71HM-475X	E CAP.	4.7µF 50V	M
	C8176	NCB31HK-472X	C CAP.	4700pF 50V	K
	C8177	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8178	NEH71CM-106X	E CAP.	10µF 16V	M
	C8179	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8180-82	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8183	NDC31HJ-101X	C CAP.	100pF 50V	J
	C8184	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8185	NEH71CM-476X	E CAP.	47µF 16V	M
	C8186	NDC31HJ-100X	C CAP.	10pF 50V	J
	C8187	NDC31HJ-101X	C CAP..	100pF 50V	J
	C8188	NEH71CM-476X	E CAP.	47µF 16V	M
	C8189	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8190-91	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8192	NDC31HJ-561X	C CAP.	560pF 50V	J
	C8193	NDC31HJ-681X	CHIP C CAPACITOR	680pF 50V	J
	C8194	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8195	NDC31HJ-330X	C CAP.	33pF 50V	J
	C8196	NCB31HK-272X	CHIP CAP.	2700pF 50V	K
	C8197	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8199	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8200	NCF31CZ-104X	C CAP.	0.1µF 16V	Z
	C8201-03	NEN51HM-105X	CHIP AL BP E CAP	1µF 50V	M
	C8204	NEH71CM-476X	E CAP.	47µF 16V	M
	C8205	NCB31HK-103X	C CAP.	0.01µF 50V	K
	C8206	NEH71CM-476X	E CAP.	47µF 16V	M

⚠	Symbol No.	Part No.	Part Name	Description	Local

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C8207	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8208	NEH71HM-105X	E CAP.	1μF 50V	M
	C8209	NEH71HM-105X	E CAP.	1μF 50V	M
	C8210	NEH71HM-105X	E CAP.	1μF 50V	M
	C8211-14	NEH71HM-475X	E CAP.	4.7μF 50V	M
	C8215	NEH71HM-225X	E CAP.	2.2μF 50V	M
	C8216	NEH71HM-475X	E CAP.	4.7μF 50V	M
	C8217	NEH71HM-105X	E CAP.	1μF 50V	M
	C8218	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8219	NCB31HK-472X	C CAP.	4700pF 50V	K
	C8220	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8221-22	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8223-28	NEN51HM-105X	CHIP AL BP E CAP	1μF 50V	M
	C8229	NEH71CM-476X	E CAP.	47μF 16V	M
	C8230-31	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8232	NEH71CM-476X	E CAP.	47μF 16V	M
	C8233	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8240-41	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8243	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8244	NEH71HM-106X	E CAP.	10μF 50V	M
	C8245-46	NDC31HJ-150X	C CAP.	15pF 50V	J
	C8247-48	NDC31HJ-7R0X	C CAP.	7.0pF 50V	J
	C8249	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8270	NEH71HM-475X	E CAP.	4.7μF 50V	M
	C8271-72	NEH71HM-475X	E CAP.	4.7μF 50V	M
	C8280	NEN51AM-106X	CHIP AL BP E CAP	10μF 10V	M
	C8281-82	NEH71HM-105X	E CAP.	1μF 50V	M
	C8285	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8286	NEH71EM-226X	E CAP.	22μF 25V	M
	C8287	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8288-92	NEH71CM-476X	E CAP.	47μF 16V	M
	C8293-94	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8295	NEH71CM-476X	E CAP.	47μF 16V	M
	C8296	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8297	NEH71EM-226X	E CAP.	22μF 25V	M
	C8298-99	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8300	NEH71CM-476X	E CAP.	47μF 16V	M
	C8301	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8302	NEH71CM-476X	E CAP.	47μF 16V	M
	C8303	NEH71EM-226X	E CAP.	22μF 25V	M
	C8310-11	NDC31HJ-330X	C CAP.	33pF 50V	J
	C8314	NEH71CM-476X	E CAP.	47μF 16V	M
	C8315	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8316	NCB31HK-102X	C CAP.	1000pF 50V	K
	C8317	NEH71CM-476X	E CAP.	47μF 16V	M
	C8318	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8319	NDC31HJ-101X	C CAP.	100pF 50V	J
	C8320	NEH71CM-476X	E CAP.	47μF 16V	M
	C8321	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8322	NDC31HJ-220X	C CAP.	22pF 50V	J
	C8323	NEN51HM-474X	CHIP AL BP E CAP	0.47μF 50V	M
	C8324	NCB31HK-153X	C CAP.	0.015μF 50V	K
	C8325	NCB31HK-103X	C CAP.	0.01μF 50V	K
	C8326	NCF31CZ-104X	C CAP.	0.1μF 16V	Z
	C8327-28	NEN51CM-475X	CHIP AL BP E CAP	4.7μF 16V	M
	C8329	NCB31HK-562X	CHIP CAP.	5600pF 50V	K
	C8330	NCB31HK-682X	CHIP CAP.	6800pF 50V	K
	C8331	NCB31HK-472X	C CAP.	4700pF 50V	K
	C8332	NDC31HJ-100X	C CAP.	10pF 50V	J
	C8333	NDC31HJ-330X	C CAP.	33pF 50V	J
	C8334	NDC31HJ-220X	C CAP.	22pF 50V	J
	C8335	NDC31HJ-680X	C CAP.	68pF 50V	J
	C8336	NDC31HJ-470X	C CAP.	47pF 50V	J
	C8337	NDC31HJ-680X	C CAP.	68pF 50V	J
	C8338	NDC31HJ-470X	C CAP.	47pF 50V	J
	C8339	NDC31HJ-330X	C CAP.	33pF 50V	J
	C8340	NDC31HJ-680X	C CAP.	68pF 50V	J
	C8341	NDC31HJ-5R0X	C CAP.	5.0pF 50V	J
	C8342-43	NDC31HJ-100X	C CAP.	10pF 50V	J
	C8501-06	NEH71HM-475X	E CAP.	4.7μF 50V	M
	C8507-08	NEH71CM-476X	E CAP.	47μF 16V	M
	C8509-10	NCB31HK-103X	C CAP.	0.01μF 50V	K

⚠	Symbol No.	Part No.	Part Name	Description	Local

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	C8514-15	NEH71HM-105X	E CAP.	1μF 50V	M
	C8516	NCF31CZ-104X	C CAP.	0.1μF 16V	Z

COIL

⚠	Symbol No.	Part No.	Part Name	Description	Local
	L8102-03	NQL011K-2R2X	COIL	2.2μH	
	L8106-14	NQL011K-2R2X	COIL	2.2μH	

DIODE

⚠	Symbol No.	Part No.	Part Name	Description	Local
	D8102-03	MA111-X	SI.DIODE		
	D8106-17	MA3082/M/-X	ZENER DIODE		
	D8118-21	MA111-X	SI.DIODE		
	D8401-06	MA111-X	SI.DIODE		
	D8501-03	MA3120/M/-X	ZENER DIODE		
	D8504-05	MA3056/M/-X	ZENER DIODE		
	D8506-11	MA111-X	SI.DIODE		

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description	Local
	Q8101-02	2SC2778/C/-X	SI.TRANSISTOR		
	Q8104-06	2SC2778/C/-X	SI.TRANSISTOR		
	Q8108-10	2SC2778/C/-X	SI.TRANSISTOR		
	Q8111	2SA1022/BC/-X	SI.TRANSISTOR		
	Q8112	2SC2778/C/-X	SI.TRANSISTOR		
	Q8113-14	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q8115-17	2SA1022/BC/-X	SI.TRANSISTOR		
	Q8118-20	2SC2778/C/-X	SI.TRANSISTOR		
	Q8121-24	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q8125	2SA1022/BC/-X	SI.TRANSISTOR		
	Q8126	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q8128	DTC124EKA-X	DIGI.TRANSISTOR		
	Q8129-30	2SA1022/BC/-X	SI.TRANSISTOR		
	Q8131-33	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q8134-35	2SA1022/BC/-X	SI.TRANSISTOR		
	Q8501-06	2SC2412K/QR/-X	SI.TRANSISTOR		
	Q8507-09	2SA1022/BC/-X	SI.TRANSISTOR		

IC

⚠	Symbol No.	Part No.	Part Name	Description	Local
	IC8101	CXA1845Q	I.C.(MONO-ANA)		
	IC8102	TDA9143/N3	I.C.(MONO-ANA)		
	IC8103	TDA4665	I.C.(MONO-ANA)		
	IC8104	TC4053BF/N/-XE	I.C.(DIGI-MOS)		
	IC8105	M52346SP	I.C.(MONO-ANA)		
	IC8106	GS4982-X	I C		
	IC8107	TC7W74F-X	I.C.(ECL-LOGIC)		
	IC8108	TC74HC4538AF-X	I.C.(DIGI-MOS)		
	IC8109	TC4538BF/N/-XE	I.C.(DIGI-MOS)		
	IC8110	TC4053BF/N/-XE	I.C.(DIGI-MOS)		
	IC8111	TC74AC540F-X	I C		
	IC8112	TC7W04F-X	I.C.(DIGI-MOS)		
	IC8113	AN5392FBQ	I.C.(MONO-ANA)		
	IC8114-15	AN5862S-W	I.C.(MONO-ANA)		
	IC8116	JLC1563M-X	I.C.(DIGI-MOS)		
	IC8117-18	JLC1562BF-X	I.C.(DIGI-MOS)		
	IC8119	TC7W74F-X	I.C.(ECL-LOGIC)		
	IC8121	BA08FP-X	I C		
	IC8122	BA09FP-X	I C		
	IC8123	BA05FP-X	I.C.(MONO-ANA)		
	IC8124	BA033FP-X	I.C.(MONO-ANA)		
	IC8125	PQ12TZ5U-X	I C		
	IC8126	TA78L09F-W	I C		
	IC8127	TC4538BF/N/-XE	I.C.(DIGI-MOS)		
	IC8128	TC4053BF/N/-XE	I.C.(DIGI-MOS)		
	IC8129	MSM5258RS	I.C.(DIGI-MOS)		
	IC8130	DS1621S-X	I C		
	IC8131-32	AN5862S-W	I.C.(MONO-ANA)		
	IC8134	TC4053BF/N/-XE	I.C.(DIGI-MOS)		
	IC8135	BA12FP-X	I.C.(MONO-ANA)		

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description	Local
⚠	CP8001	ICP-N75-Y	I.C.PROTECT		
	FL8501-05	NQR0169-001X	EMI FILTER		
	J8001	CHD105W-15S-J	D SUB 15S		
	X8101	CE40749-001	CRYSTAL		
	X8102-03	CE40668-001	CRYSTAL		

AUDIO P.W.BOARD ASS'Y (FX-8013A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R8651	NRSA63J-104X	MG R	100kΩ 1/16W J	
	R8652	NRSA63J-333X	MG R	33kΩ 1/16W J	
	R8653	NRSA63J-472X	MG R	4.7kΩ 1/16W J	
	R8654	NRSA63J-103X	MG R	10kΩ 1/16W J	
	R8655	NRSA63J-105X	MG R	1MΩ 1/16W J	
	R8656-59	NRSA63J-221X	MG R	220Ω 1/16W J	
	R8660-61	QRE122J-2R2	C R	2.2Ω 1/2W J	
	R8662	NRSA63J-103X	MG R	10kΩ 1/16W J	
	R8663-64	NRSA63J-682X	MG R	6.8kΩ 1/16W J	
	R8665-66	NRSA63J-102X	MG R	1kΩ 1/16W J	
	R8668	NRSA63J-103X	MG R	10kΩ 1/16W J	
	R8673	NRSA63J-103X	MG R	10kΩ 1/16W J	
	R8674-75	NRSA63J-473X	MG R	47kΩ 1/16W J	
	R8680	NRSA63J-100X	MG R	10Ω 1/16W J	
	R8681-82	NRSA63J-223X	MG R	22kΩ 1/16W J	
	R8683-84	NRSA63J-104X	MG R	100kΩ 1/16W J	
	R8801-03	QRZ0096-1R5	UNF.WW.RESISTOR		
	R8804	NRSA63J-103X	MG R	10kΩ 1/16W J	
	R8805	NRSA63J-224X	MG R	220kΩ 1/16W J	
	R8807-08	NRSA63J-473X	MG R	47kΩ 1/16W J	
	CAPACITOR				
	C8631	QETM1CM-477	E CAP.	470µF 16V M	
	C8632	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C8633-34	NEN51CM-475X	CHIP AL BP E CAP	4.7µF 16V M	
	C8635-36	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C8637-38	NCB31HK-472X	C CAP.	4700pF 50V K	
	C8639	NEH71CM-476X	E CAP.	47µF 16V M	
	C8640	NEH71HM-475X	E CAP.	4.7µF 50V M	
	C8641	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C8642-43	NEH71HM-475X	E CAP.	4.7µF 50V M	
	C8644	NEN51CM-475X	CHIP AL BP E CAP	4.7µF 16V M	
	C8645	NEH71CM-106X	E CAP.	10µF 16V M	
	C8646	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C8647	NEN51CM-475X	CHIP AL BP E CAP	4.7µF 16V M	
	C8648-49	NEH71HM-475X	E CAP.	4.7µF 50V M	
	C8651	QETM1EM-108	E CAP.	1000µF 25V M	
	C8652	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C8653-54	NEH71HM-475X	E CAP.	4.7µF 50V M	
	C8655	NEH71CM-476X	E CAP.	47µF 16V M	
	C8656	NCF31CZ-224X	CHIP C CAPACITOR	0.22µF 16V Z	
	C8657	NEH71CM-476X	E CAP.	47µF 16V M	
	C8658	NCF31CZ-224X	CHIP C CAPACITOR	0.22µF 16V Z	
	C8659-60	NCF31CZ-104X	C CAP.	0.1µF 16V Z	
	C8661-62	QTMN1EM-477Z	E CAPACITOR	470µF 25V M	
	C8664-65	NEN51CM-475X	CHIP AL BP E CAP	4.7µF 16V M	
	C8666-67	NEH71CM-476X	E CAP.	47µF 16V M	
	C8670-71	NEN51CM-475X	CHIP AL BP E CAP	4.7µF 16V M	
	C8672-73	NCF31CZ-224X	CHIP C CAPACITOR	0.22µF 16V Z	
	C8801	QETM1CM-228	E CAP.	2200µF 16V M	
	C8802	QETM1EM-108	E CAP.	1000µF 25V M	
	C8803	QETM1CM-108	E CAP.	1000µF 16V M	
	C8804	QETM1EM-108	E CAP.	1000µF 25V M	
	C8805	QETM1CM-108	E CAP.	1000µF 16V M	
	COIL				
	L8615	NQL011K-2R2X	COIL	2.2µH	
	L8801-02	QQL42AM-5R6Z	COIL	5.6µH M	
	DIODE				
	D8601-03	MA111-X	SI.DIODE		
	D8604	MA3051/M/-X	ZENER DIODE		
	D8606-07	MA111-X	SI.DIODE		
	D8608-09	MA3220/M/-X	ZENER DIODE		

⚠	Symbol No.	Part No.	Part Name	Description	Local
	DIODE				
	D8610	MA111-X	SI.DIODE		
	TRANSISTOR				
	Q8622	2SA1022/BC/-X	SI.TRANSISTOR		
	Q8624	DTC124EKA-X	DIGI.TRANSISTOR		
	Q8626-27	DTC124EKA-X	DIGI.TRANSISTOR		
	IC				
	IC8619	CXA2021S	I C		
	IC8621	TA8200AH	I.C.(MONO-ANA)		
	IC8801	BP5020	I C		

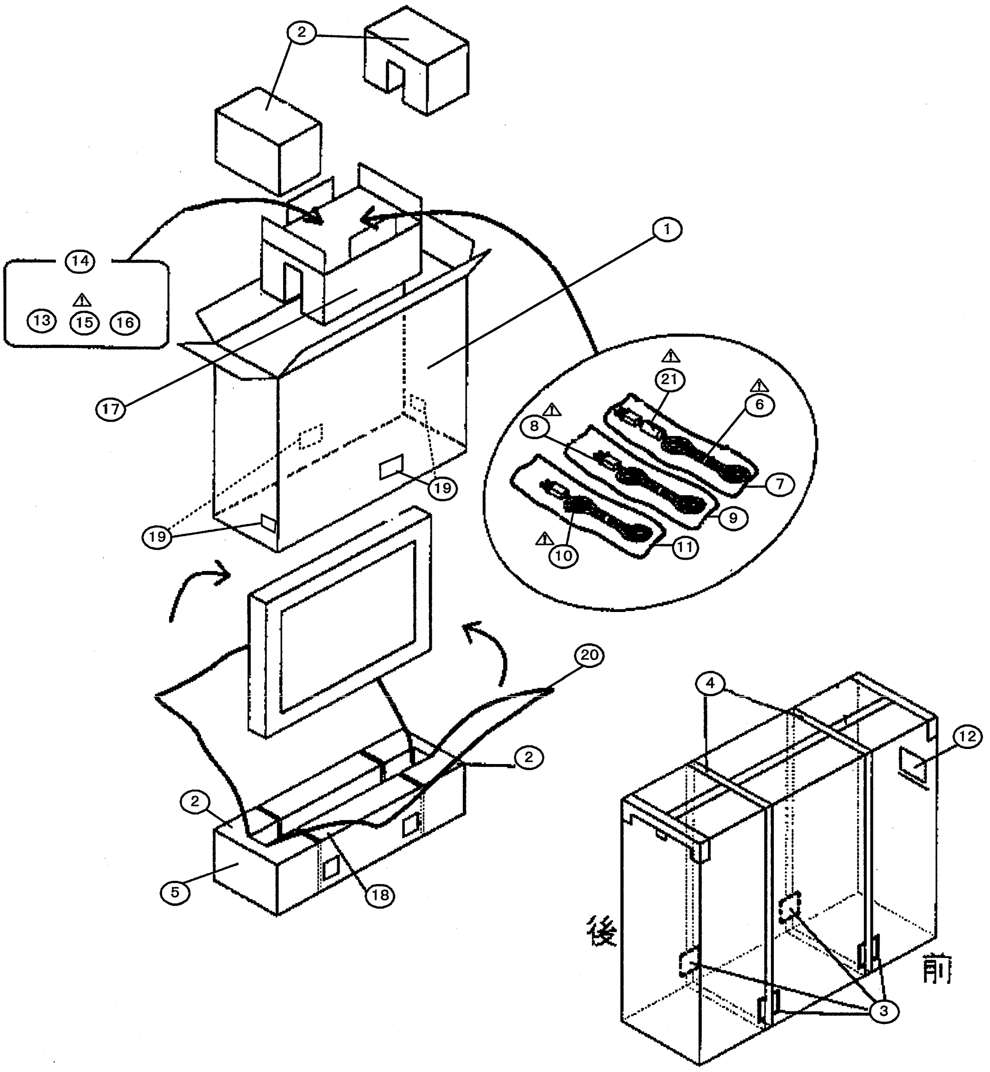
REMOTE P.W.BOARD ASS'Y (FX-8014A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	RESISTOR				
	R8721-22	NRSA63J-103X	MG R	10kΩ 1/16W J	
	R8723-24	NRSA63J-104X	MG R	100kΩ 1/16W J	
	R8725	NRSA63J-103X	MG R	10kΩ 1/16W J	
	CAPACITOR				
	C8702-03	NEH71CM-476X	E CAP.	47µF 16V M	
	C8706-09	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C8803	NCB31HK-103X	C CAP.	0.01µF 50V K	
	C8805-06	NCB31HK-103X	C CAP.	0.01µF 50V K	
	COIL				
	L8801-04	QQL402K-4R7	COIL	4.7µH	
	L8805-06	QQL402K-100	COIL	10µH K	
	DIODE				
	D8701-02	MA3056/M/-X	ZENER DIODE		
	D8705	MA3056/M/-X	ZENER DIODE		
	D8803-10	MA111-X	SI.DIODE		
	OTHERS				
	FL8701-02	NQR0321-002X	EMI FILTER		
⚠	FR8801	QRZ9021-1R8	FUSI.RESISTOR		
⚠	FR8802	QRZ9021-1R8	FUSI.RESISTOR		
	J8701	QMS3005-C01	3.5 JACK	WIRED-INPUT	
	J8702	QMS3005-C01	3.5 JACK	WIRED-OUTPUT	
	J8801	CEMT005-002	EXT SP TERMINAL		
	S8801	QSW0836-001	SLIDE SWITCH	INT/EXT	

FILTER P.W.BOARD ASS'Y (FX-9063A)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	CAPACITOR				
⚠	C9903	QFZ9040-105	M.M.CAPACITOR		
	OTHERS				
		A49593	CONNECTOR CLIP	x2	
⚠	F9901	QMFZ041-100-J1	FUSE		
⚠	LF9901	QQR1025-001	LINE FILTER		
⚠	LF9902	QQR1025-001	LINE FILTER		
⚠	LF9903	QQR0810-001	LINE FILTER		

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1	LC20255-001B	TOP CARTON		
	2	LC10346-001B	CUSHION ASSY		
	3	CP30903-001	JOINT	×4	
	4	CP30371-00E	BAND	×2	
	5	LC20254-001B	BOTTOM CARTON		
⚠	6	QMPE100-250-K	POWER CORD		
	7	QPGA012-03005	POLY BAG		
⚠	8	QMPL050-250-K	POWER CORD		
	9	QPGA012-03005	POLY BAG		
⚠	10	QMPP070-250-K	POWER CORD		
	11	QPGA012-03005	POLY BAG		
	12	CM47385-00A	POS/SERIAL LABEL		
	13	RM-C575-1	RC HAND PIECE		
	14	CP30975-001	POLY BAG		
⚠	15	LCT0318-001A	INST BOOK		
	16	CH44097-00A	CONNECTOR ASSY		
	17	LC20513-001A	SUB CUSHION (T)		
	18	LC20514-001A	SUB CUSHION (B)		
	19	LC40661-001A	CARTON LABEL	×4 GD-V4200PZW-G ONLY	
	20	QPE18018005	POLY SHEET		
⚠	21	QQR0491-001	FILTER		

JVC

SERVICE MANUAL

42" PLAZMA DESPLAY MONITOR

BASIC CHASSIS
P1

GD-V4200PZW
GD-V4200PZW-G

Supplementary

Since some details of the GD-V4200PZW / PZW-G service manual (No.51566, Sep. 1999) were change, we are informing you of these change descriptions.

CONTENTS

■ ADDED FUNCTION ···· 2
■ ADDED SPECFICATION ···· 2
■ SERVICE ADJUSTMENTS(CORRECTION,ADDITION) ···· 3
■ INITIAL SETTINGS OF THE SERVICE MENU ADJUSTMENT ITEMS ···· 8
■ PARTS LIST ···· 13

※*Please insert the following contents into the this sevice manual*

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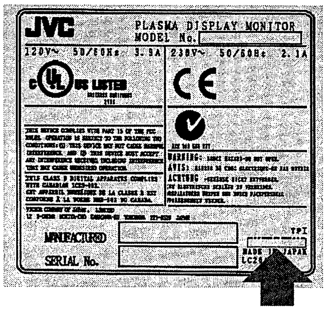
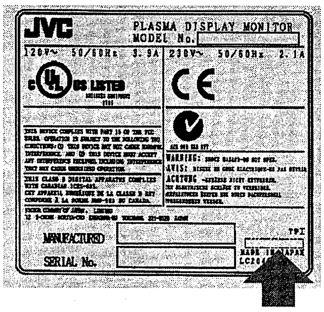
No.51566B
Sep. 2000

ADDED FUNCTION

XGA(fv=60Hz,72Hz) and SVGA(fv=72Hz)signal can be displayed in16:9 full size

⚠	MODEL Parts name	GD-V4200PZW	GD-V4200PZW-G
⚠	RATING LABEL	LC20453-001C	LC20453-002C
		 JVC PLASMA DISPLAY MONITOR MODEL No. 120V~ 50/60Hz 3.9A 230V~ 50/60Hz 2.1A MANUFACTURED SERIAL No. MADE IN JAPAN INDICATED "**GD-V4200PZW XG**"	 JVC PLASMA DISPLAY MONITOR MODEL No. 120V~ 50/60Hz 3.9A 230V~ 50/60Hz 2.1A MANUFACTURED SERIAL No. MADE IN JAPAN INDICATED "**GD-V4200PZW-G XG**"

When the ROLL R LABEL is same as above figure, please adjust the additional item of adjustment No.45.
Also when you change DIGITAL P.W. ASS'Y (FX-1117A), it adjust additional item of adjustment No.45

ADDED SPECIFICATION

PDP DESCRIPTION (P5)

(3) Pixel fault

	Screen display	Criteria for number of faulted cell	Criteria for number of consecutive faulted cell
Bright fault	All black screen	A zone: 1 or less than 1 in each color B zone: 2 or less than 2 in each color	2 or Less than 2 consecutively
Dark fault	Red level 100% on entire screen	A zone: 2 or less than 2 in each color B zone: 6 or less than 6 in each color	2 or Less than2 consecutively
	Green level 100% on entire screen		
	Blue level 100% on entire screen		

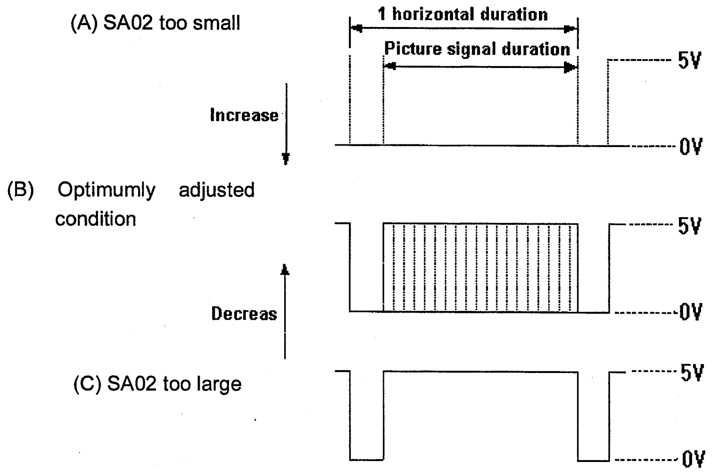
SERVICE ADJUSTMENTS(CORRECTION,ADDITION)

17.AD input offset (NTSC)

CORRECTION

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	Composite video signal - All black pattern

1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to the digital PCB TP-G5 (IC205 ⑮ pin - the fifth bit from the bottom) .
3. Adjust the <SERVICE MENU>signal block SA02 (AD input offset) so that the brightness Low(0V) and High(5V) of the digital signal voltage, which corresponds to the picture signal duration, become the same. Because there are many kinds of optimumly adjusted condition indicated by (B) , increase SA02 gradually to get the point where the first optimum condition is obtained.

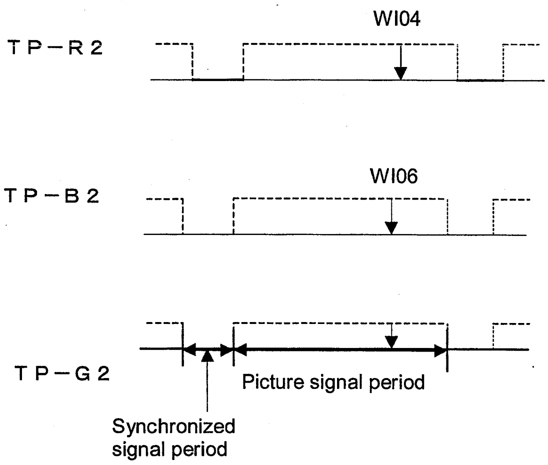

(A) SA02 too small
1 horizontal duration
Picture signal duration
5V
0V
Increase
(B) Optimumly adjusted condition
5V
0V
Decreas
(C) SA02 too large
5V
0V

19. Color difference offset (video)

CORRECTION

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	Composite video signal - all black pattern / Chromatography signal should be turned OFF.

1. Input the signal to VIDEO A.
2. Connect the probe of the oscilloscope to the digital PCB TP-R2、TP-G2 and TP-B2.
3. Adjust the <SERVICE MENU>WB block WI04(R offset) / WI06 (B offset) so that the offset between the picture signal period and the synchronized signal period is eliminated. If WI04 / WI06 are decreased too much, an offset will be generated on TP-G2. Therefore, all three wave forms shall be adjusted properly so that there are no offsets.


WI04
TP－R2
WI06
TP－B2
TP－G2
Picture signal period
Synchronized signal period

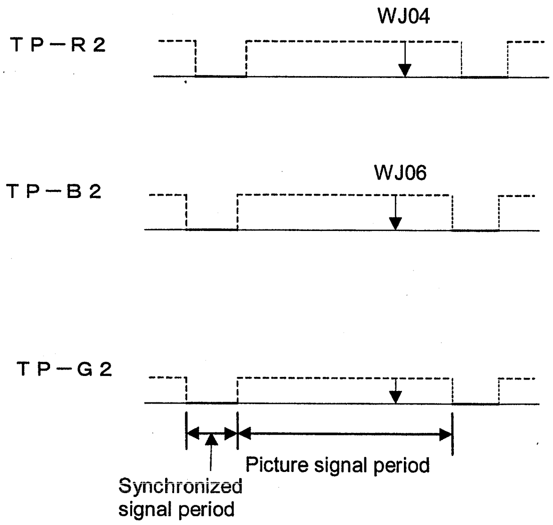
Etting of oscilloscope	
Horizontal Vertical	10 μ S/div 0.1 V/div

19A. Color difference offset (480i)

ADDITION

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	Composite video signal - all black pattern / Chromatography signal should be turned OFF.

4. Input the signal to VIDEO A.
5. Connect the probe of the oscilloscope to the digital PCB TP-R2、TP-G2 and TP-B2.
6. Adjust the <SERVICE MENU>WB block WJ04(R offset) / WJ06 (B offset) so that the offset between the picture signal period and the synchronized signal period is eliminated. If WJ04 / WJ06 are decreased too much, an offset will be generated on TP-G2. Therefore, all three wave forms shall be adjusted properly so that there are no offsets.



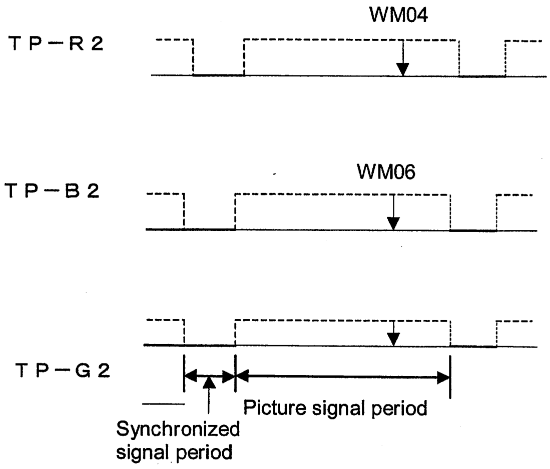
Etting of oscilloscope	
Horizontal	10 µ S/div
Vertical	0.1 V/div

21 Color difference offset (RGB15k)

CORRECTION

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	Composite video signal - all black pattern / Chromatography signal should be turned OFF.

7. Input the signal to VIDEO A.
8. Connect the probe of the oscilloscope to the digital PCB TP-R2、TP-G2 and TP-B2.
9. Adjust the <SERVICE MENU>**WB** block WM04(R offset) / WM06 (B offset) so that the offset between the picture signal period and the synchronized signal period is eliminated. If WM04 / WM06 are decreased too much, an offset will be generated on TP-G2. Therefore, all three wave forms shall be adjusted properly so that there are no offsets.



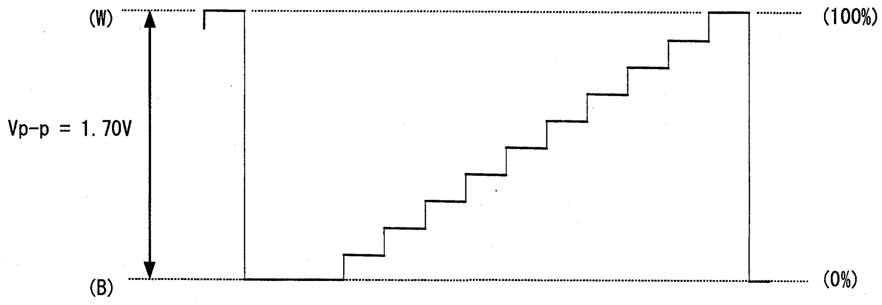
Etting of oscilloscope	
Horizontal	10 µ S/div
Vertical	0.1 V/div

21. Contrast (VGA)

CORRECTION

Measuring Instruments	Oscilloscope / PC video signal generator
Signals to be used	VGA signal 640 x 480 dots (Horizontal frequency: 31.5KHz, Vertical frequency: 60Hz) Gray scale pattern

1. Input the signal to PC terminal.
2. Connect the probe of the oscilloscope to the digital PCB TP-G.
3. Adjust the <SERVICE MENU>signal block SL01 so that the electric potential difference shown in the Fig. Becomes1.70V.

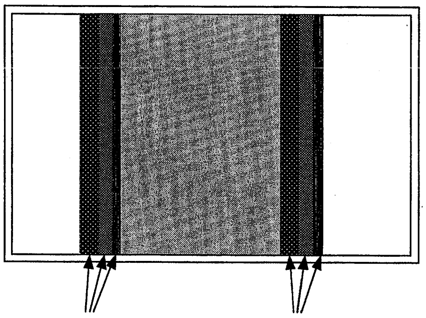


23. RGB balance (NTSC)

CORRECTION

Measuring Instruments	Oscilloscope / NTSC video signal generator
Signals to be used	Composite video signal - ramp pattern Chromatography signal should be turned OFF.

4. Input the signal to VIDEO A.
5. Change the <SERVICE MENU>CPU block CH01 from “0” to “2” to enter the test mode for R/G/B balance.
6. Adjust the <SERVICE MENU>WHITE BALANCE block WC04(R CUTOFF) and WC06(B CUTOFF) so that the three lines at the left side on the PDP panel are aligned. Don't move WC05(G CUTOFF).
7. Then adjust the <SERVICE MENU> WHITE BALANCE block WC01(R DRIVE) and WC03(B DRIVE) so that the three lines on the right side on the PDP panel are aligned. Don't move WC02 (G DRIVE).
8. Because the lines aligned in the step 3. will shift as the result of the adjustment in the step 4. , repeat the steps 3.. and 4. so that the three lines on the left and right sides are aligned respectively.
9. Return the <SERVICE MENU> CH01 from “2” to “0” .



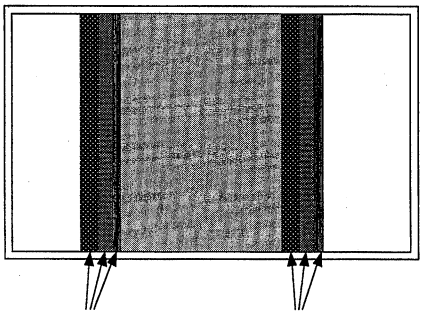
Align the three lines
on the left side

Align the three lines
on the right side

24.RGB balance (480i) CORRECTION

Measuring Instruments	Oscilloscope
Signals to be used	480i video signal - ramp pattern. Chromatography signal should be turned OFF.

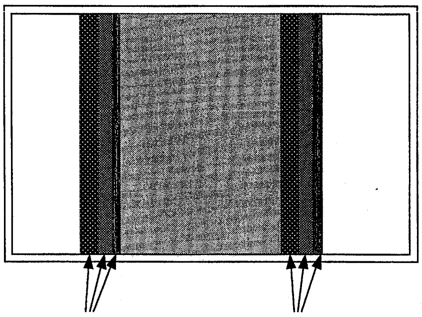
1. Input the signal to COMPONENT terminal.
2. Change the <SERVICE MENU>CPU block CH01 from "0" to "2" to enter the test mode for R/G/B balance.
3. Adjust the <SERVICE MENU>WHITE BALANCE block WE04(R CUTOFF) and WE06(B CUTOFF) so that the three lines at the left side on the PDP panel are aligned. Don't move WE05(G CUTTOFF).
4. Then adjust the <SERVICE MENU> WHITE BALANCE block WE01(R DEIVE) and WE03(B DEIVE) so that the three lines on the right side on the PDP panel are aligned. Don't move WE02(G DRIVE).
5. Because the lines aligned in the step 3. will shift as the result of the adjustment in the step 4. repeat the steps 3. and 4. so that the three lines on the left and right sides are aligned respectively.
6. Return the <SERVICE MENU> CH01 from "2" to "0" .


Align the three lines on the left side
Align the three lines on the right side

24A. RGB balance (RGB15k) ADDITION

Measuring Instruments	Oscilloscope PC video signal generator
Signals to be used	RGB video signal (Horizontal frequency: 15.75KHz, Vertical frequency: 59.94Hz) ramp pattern

1. Input the signal to PC terminal.
2. Change the <SERVICE MENU>CPU block CH01 from "0" to "2" to enter the test mode for RGB balance.
3. Adjust the <SERVICE MENU>WHITE BALANCE block WK04(R CUTOFF) and WK06(B CUTOFF) so that the three lines at the left side on the PDP panel are aligned. Don't move WK05(G CUTTOFF).
4. Then adjust the <SERVICE MENU> WHITE BALANCE block WK01(R DRIVE) and WK03(B DRIVE) so that the three lines on the right side on the PDP panel are aligned. Don't move WA02(G DRIVE).
5. Because the lines aligned in the step 3. will shift as the result of the adjustment in the step 4., repeat the steps 3. and 4. so that the three lines on the left and right sides are aligned respectively.
6. Return the <SERVICE MENU> CH01 from "2" to "0" .


Align the three lines on the left side
Align the three lines on the right side

32. White balance (RGB15k)

ADDITION

Measuring Instruments	PC video signal generator / Color temperature measuring device
Preparation before Adjustments	Wait for more than 20 minutes. If the power is turned off, start the adjusting after 5 minutes later from turning on again. The <PICTURE ADJ.> of the <MAIN MENU> should be initialized. This adjustment shall be done after completing the adjustment of RGB balance.
Signal to be used	RGB video signal (Horizontal frequency: 15.75KHz, Vertical frequency: 59.94Hz) Window pattern **(luminance 70%)**

1. Input the signal to PC terminal.
2. Select HIGH in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
3. Adjust the <SERVICE MENU> WHITE BALANCE block WK07(R DRIVE) and WK08 (G DRIVE) so that the color temperature become the HIGH adjustment point as shown below. Don't move WK09 (B DRIVE).
4. In case where adjustments cannot be done with step 3. temporarily return WK07(R DRIVE) and WK08(G DRIVE) to "255" and fix WK08 (G DRIVE) at "255". Then adjust WK07(R DRIVE) and WK09 (B DRIVE) again.
5. Select LOW in the steps of <MAIN MENU> → <FUNCTION SELECT> → COLOR TEMP.
6. Adjust the <SERVICE MENU> WL08(G DRIVE) and WL09 (B DRIVE) so that the color temperature is at the Low adjustment point as shown below. Don't move WL07(R DRIVE).
7. In case where adjustments cannot be done with step 6., temporarily return WL08(R DRIVE) and WL09 (G DRIVE) to "255" and fix WL08 (G DRIVE) at "255". Then adjust WL07(R DRIVE) and WL09 (B DRIVE) again.

COLOR TEMP.	COLOR TEMP. ADJUSTING POINT
HIGH (EQUIVALENT TO D93)	x = 0.283 y = 0.297
LOW (EQUIVALENT TO D65)	x = 0.313 y = 0.329

45. PC horizontal screen position

ADDITION

Measuring Instruments	PC video signal generator
Signals to be used	PC video signal - circle pattern or cross-hatch pattern

1. Input the signal to PC terminal.
2. Make sure that the ∗-mark is shown after the frequency status indication such as 24KHz and 56Hz.
3. Change ASPECT to REGULAR after the steps < MAIN MENU > → < FUNCTION SELECT >.
4. Check the both ends of the left and right sides of the screen position and adjust the <SERVICE MENU>[A] (DO18 when PC98 is used) so that the horizontal screen position is centered.
5. Change ASPECT to FULL after the steps < MAIN MENU > → < FUNCTION SELECT >.
6. Check the both ends of the left and right sides of the screen position and adjust the <SERVICE MENU>[B] (DP18 in case where PC98 is used) so that the horizontal screen position is centered.
7. Make the same adjustments for the preset signal given below.

No.	PRESET SIGNAL	FREQUENCY		NUMBER OF EFFECTIVE PIXELS		SERVICE NO. FOR SERVICE	
		HORIZONTAL (kHz)	VERTICAL (Hz)	HORIZONTAL (dot)	VERTICAL (dot)	NORMAL [A]	FULL [B]
9	SVGA-72	48.08	72.19	800	600	DY18	DAJ18
10	XGA-60	48.36	60.00	1024	768	DAD18	DAK18
11	XGA-70	56.48	70.07	1024	768	DAE18	DAL18

INITIAL VALUE LIST OF THE SERVICE MENU ADJUSTMENT ITEMS

This is an initial value list of adjustment possible items. Don't adjust service items except below list absolutely. If you adjust service items except below list, this display will go out of order

SIGNAL BLOCK

VIDEO NTSC (SA)

No.	Item	Initial value
S (A01)	AD input level	180
S (A02)	AD input offset	103
S (A03)	Chromatography	048
S (A04)	Phase	067
S (A07)	B-Y gain	026
S (A10)	Contrast	187
S (A11)	Bright	098

VIDEO PAL (SB)

No.	Item	Initial value
S (B03)	Chromatography	000
S (B04)	Phase	000
S (B07)	B-Y gain	002

VIDEO SECAM (SC)

No.	Item	Initial value
S (C03)	Chromatography	002
S (C04)	Phase	000
S (C07)	B-Y gain	002

Y/C NTSC (SD)

No.	Item	Initial value
S (D03)	Chromatography	000
S (D04)	Phase	000
S (D07)	B-Y gain	001

Y/C PAL (SE)

No.	Item	Initial value
S (E03)	Chromatography	000
S (E06)	Sub-bright	000
S (E07)	B-Y gain	000

Y/C SECAM (SF)

No.	Item	Initial value
S (F03)	Chromatography	003
S (F06)	Sub-bright	000
S (F07)	B-Y gain	000

COMPONENT 480i (SG)

No.	Item	Initial value
S (G01)	AD input level	180
S (G02)	AD input offset	103
S (G03)	Chromatography	059
S (G04)	Phase	064
S (G07)	B-Y gain	048
S (G10)	Contrast	183
S (G11)	Bright	098

COMPONENT 480i (SH)

No.	Item	Initial value
S (H03)	Chromatography	000
S (H04)	Phase	000
S (H07)	B-Y gain	000

COMPONENT 480p (SI)

No.	Item	Initial value
S (I02)	Bright	-080
S (I03)	Chromatography	000
S (I04)	Phase	000
S (I07)	B-Y gain	000

COMPONENT 720p (SJ)

No.	Item	Initial value
S (J02)	Bright	-87
S (J03)	Chromatography	005
S (J04)	Phase	000
S (J07)	B-Y gain	-038

COMPONENT 1080i (SK)

No.	Item	Initial value
S (K02)	Bright	-088
S (K03)	Chromatography	004
S (K04)	Phase	000
S (K07)	B-Y gain	-034

PC VGA (SL)

No.	Item	Initial value
S (L01)	Contrast	027
S (L02)	Bright	-088

WHITE BLANCE BLOCK

PC HIGH (WA)

No.	Item	Initial value
W (A01)	R Drive for the RGB balance	135
W (A03)	B Drive for the RGB balance	134
W (A04)	R Cutoff for the RGB balance	128
W (A05)	G Cutoff for the RGB balance	128
W (A06)	B Cutoff for the RGB balance	128
W (A07)	R Drive for the white balance	255
W (A08)	G Drive for the white balance	255
W (A09)	B Drive for the white balance	255

PC LOW (WB)

No.	Item	Initial value
W (B07)	R Drive for the white balance	255
W (B08)	G Drive for the white balance	255
W (B09)	B Drive for the white balance	255

VIDEO/RGB15k HIGH (WC)

No.	Item	Initial value
W (C01)	R Drive for the RGB balance	140
W (C03)	B Drive for the RGB balance	149
W (C04)	R Cutoff for the RGB balance	074
W (C05)	G Cutoff for the RGB balance	080
W (C06)	B Cutoff for the RGB balance	075
W (C07)	R Drive for the white balance	255
W (C08)	G Drive for the white balance	255
W (C09)	B Drive for the white balance	255

VIDEO/RGB15k LOW (WD)

No.	Item	Initial value
W (D07)	R Drive for the white balance	255
W (D08)	G Drive for the white balance	255
W (D09)	B Drive for the white balance	255

COMPONENT 480i/576i HIGH (WE)

No.	Item	Initial value
W (E01)	R Drive for the RGB balance	128
W (E03)	B Drive for the RGB balance	128
W (E04)	R Cutoff for the RGB balance	128
W (E05)	G Cutoff for the RGB balance	128
W (E06)	B Cutoff for the RGB balance	128
W (E07)	R Drive for the white balance	128
W (E08)	G Drive for the white balance	128
W (E09)	B Drive for the white balance	128

COMPONENT 480i/576i LOW (WF)

No.	Item	Initial value
W (F07)	R Drive for the white balance	128
W (F08)	G Drive for the white balance	128
W (F09)	B Drive for the white balance	128

COMPONENT 480p/720p/1080i HIGH (WG)

No.	Item	Initial value
W (G04)	R Cutoff for the RGB balance	128
W (G05)	G Cutoff for the RGB balance	128
W (G06)	B Cutoff for the RGB balance	128
W (G07)	R Drive for the white balance	128
W (G08)	G Drive for the white balance	128
W (G09)	B Drive for the white balance	128

COMPONENT 480p/720p/1080i LOW (WH)

No.	Item	Initial value
W (H07)	R Drive for the white balance	128
W (H08)	G Drive for the white balance	128
W (H09)	B Drive for the white balance	128

Color difference offset VIDEO/RGB15k (WI)

No.	Item	Initial value
W (I04)	R offset	134
W (I06)	B offset	134

Color difference offset COMPONENT (WJ)

No.	Item	Initial value
W (J04)	R offset	130
W (J06)	B offset	130

RGB 15k 50Hz/60Hz (WK)

No.	Item	Initial value
W (K01)	R Drive for the RGB balance	128
W (K03)	B Drive for the RGB balance	110
W (K04)	R Cutoff for the RGB balance	128
W (K05)	G Cutoff for the RGB balance	128
W (K06)	B Cutoff for the RGB balance	128
W (K07)	R Drive for the white balance	128
W (K08)	G Drive for the white balance	128
W (K09)	B Drive for the white balance	128

RGB 15k 50Hz/60Hz (WL)

No.	Item	Initial value
W (L07)	R Drive for the white balance	128
W (L08)	G Drive for the white balance	128
W (L09)	B Drive for the white balance	128

Color difference offset RGB 15k 50Hz/60Hz (WM)

No.	Item	Initial value
W (M04)	R offset	130
W (M06)	B offset	130

SIZE SETTING (CH)

No.	Item	Initial value
C (H01)	FPGA TEST MODE	0

SIZE/POSITION BLOCK

VIDEO 60Hz NORMAL (DA)

No.	Item	Initial value
D (A18)	Horizontal screen position	64

VIDEO 60Hz FULL (DB)

No.	Item	Initial value
D (B18)	Horizontal screen position	252

VIDEO 60Hz CINEMA (DC)

No.	Item	Initial value
D (C18)	Horizontal screen position	252

VIDEO 60Hz PANORAMA (DD)

No.	Item	Initial value
D (D18)	Horizontal screen position	29

VIDEO 50Hz NORMAL (DE)

No.	Item	Initial value
D (E18)	Horizontal screen position	82

VIDEO 50Hz FULL (DF)

No.	Item	Initial value
D (F18)	Horizontal screen position	20

VIDEO 60Hz CINEMA (DG)

No.	Item	Initial value
D (G18)	Horizontal screen position	20

VIDEO 50Hz PANORAMA (DH)

No.	Item	Initial value
D (H18)	Horizontal screen position	57

COMPONENT 480p NORMAL (DI)

No.	Item	Initial value
D (I18)	Horizontal screen position	34

COMPONENT 480p FULL (DJ)

No.	Item	Initial value
D (J18)	Horizontal screen position	124

COMPONENT 720p (DK)

No.	Item	Initial value
D (K18)	Horizontal screen position	129

COMPONENT 1080i (DL)

No.	Item	Initial value
D (L18)	Horizontal screen position	72

PC VGA400 NORMAL (DM)

No.	Item	Initial value
D (M18)	Horizontal screen position	61

PC VGA400 FULL (DN)

No.	Item	Initial value
D (N18)	Horizontal screen position	160

PC VGA400 (PC-98) NORMAL (DO)

No.	Item	Initial value
D (O18)	Horizontal screen position	75

PC VGA400 FULL (DP)

No.	Item	Initial value
D (P18)	Horizontal screen position	166

PC VGA NORMAL (DQ)

No.	Item	Initial value
D (Q18)	Horizontal screen position	75

PC VGA400 FULL (DP)

No.	Item	Initial value
D (R18)	Horizontal screen position	160

PC VGA 70Hz NORMAL (DS)

No.	Item	Initial value
D (S18)	Horizontal screen position	85

PC VGA 70Hz FULL (DT)

No.	Item	Initial value
D (T18)	Horizontal screen position	192

PC VGA 75Hz NORMAL (DU)

No.	Item	Initial value
D (U18)	Horizontal screen position	101

PC VGA 75Hz FULL (DV)

No.	Item	Initial value
D (V18)	Horizontal screen position	214

PC MAC NORMAL (DW)

No.	Item	Initial value
D (W18)	Horizontal screen position	77

PC MAC FULL (DX) **Data type: Reference value**

No.	Item	Initial value
D (X18)	Horizontal screen position	182

PC SVGA 72Hz NORMAL (DY)

No.	Item	Initial value
D (Y18)	Horizontal screen position	64

PC SVGA 56.2Hz NORMAL (DZ)

No.	Item	Initial value
D (Z18)	Horizontal screen position	77

PC SVGA 56.2Hz FULL (DAA)

No.	Item	Initial value
DA (A18)	Horizontal screen position	182

PC SVGA 60.3Hz NORMAL (DAB)

No.	Item	Initial value
DA (B18)	Horizontal screen position	90

PC SVGA 60.3Hz FULL (DAC)

No.	Item	Initial value
DA (C18)	Horizontal screen position	199

PC XGA 60Hz NORMAL (DAD)

No.	Item	Initial value
DA (D18)	Horizontal screen position	74

PC XGA 70Hz NORMAL (DAE)

No.	Item	Initial value
DA (E18)	Horizontal screen position	92

PC XGA 60Hz NORMAL (DAD)

No.	Item	Initial value
DA (F18)	Horizontal screen position	70

PC RGB15k/60Hz FULL (DAG)

No.	Item	Initial value
DA (G18)	Horizontal screen position	3

PC RGB15k/60Hz NORMAL (DAH)

No.	Item	Initial value
DA (H18)	Horizontal screen position	88

PC RGB15k/50Hz FULL (DAI)

No.	Item	Initial value
DA (I18)	Horizontal screen position	24

PC SVGA 72Hz FULL (DAJ)

No.	Item	Initial value
DA (J18)	Horizontal screen position	164

PC XGA 60Hz FULL (DAK)

No.	Item	Initial value
DA (K18)	Horizontal screen position	177

PC XGA 70Hz FULL (DAL)

No.	Item	Initial value
DA (L18)	Horizontal screen position	201

PARTS LIST

EXPLODED VIEW PARTS LIST 〔P3-3〕

⚠	REF. No.	PARTS No.		PARTS NAME	DESCRIPTION
		PREVIOUS	NEW		
⚠	1	LC30941-001A	LC30941-001B	FRONT PANEL	
	11	LC20474-001A	LC20474-002A	TERMINAL PANEL	
	12	LC10675-001A	LC10675-002B	REAR COVER	
⚠	14	LC20453-001A	LC20453-001C	ROLL R LABEL	GD-V4200PZW
⚠	14	LC20453-002A	LC20453-002C	ROLL R LABEL	GD-V4200PZW-G
⚠	19	LC30959-001B	LC30959-002A	SPACER(A)	
⚠	20	LC30960-001B	LC30960-002A	SPACER(B)	
	25	LC20365-001C	LC20365-003A	INLET PANEL	

DIGITAL P.W. BOARD ASS'Y (FX-1117A) 〔P3-7〕

⚠	SYMBOL No.	PARTS No.		PARTS NAME	DESCRIPTION
		PREVIOUS	NEW		
	R1225	NRSA63J-102X	NRSA63J-271X	MG R	270Ω 1/16W J
	R1320-21	NRZ0014-103X	NRZ0040-103X	NW R	
	R1414-15	NRZ0014-0R0X	NRZ0040-0R0X	NW R	
	R1437-42	NRZ0014-103X	NRZ0040-103X	NW R	
	R1443	--------------------	NRSA63J-0R0X	MG R	ADDITION 0.0Ω 1/16W J
	R1447	--------------------	NRSA63J-0R0X	MG R	ADDITION 0.0Ω 1/16W J
	R1510-13	NRZ0014-101X	NRZ0040-101X	NW R	
	R1515-17	NRZ0014-101X	NRZ0040-101X	NW R	
	R1519-20	NRZ0014-101X	NRZ0040-101X	NW R	
	R1534	NRZ0014-101X	NRZ0040-101X	NW R	
	R1538-39	NRZ0014-103X	NRZ0040-103X	NW R	
	R1564	NRZ0014-103X	NRZ0040-103X	NW R	
	R1537	NRZ0014-101X	NRZ0040-101X	NW R	
	R1582	NRS181J-821X	--------------------		DELETE
	R1584	NRSA63J-100X	--------------------		DELETE
	R1585	NRSA63J-102X	--------------------		DELETE
	R1586	NRSA63J-104X	--------------------		DELETE
	R1588	--------------------	NRSA63J-0R0X	MG R	ADDITION 0.0Ω 1/16W J
	R1590	--------------------	NRSA63J-0R0X	MG R	ADDITION 0.0Ω 1/16W J
	R1609	NRZ0014-103X	NRZ0040-103X	NW R	
	R1643	NRSA63J-102X	--------------------		DELETE
	R1694-95	NRZ0014-103X	NRZ0040-103X	NW R	
	R1808	NRSA63J-103X	NRSA63J-562X	MG R	5.6kΩ 1/16W J
	R1817-18	NRZ0014-103X	NRZ0040-103X	NW R	
	C1148-49	QFL1HJ-103X	NCB31HK-103X	C CAP	0.01μF 50V K
	C1659	NEH71HM-105X	--------------------		DELETE
	C1661	--------------------	NCB31HK-103X	C CAP	ADDITION 0.01μF 50V K
	C1662-63	--------------------	NDC31HJ-820X	CHIP C CAP	ADDITION 82μF 50V K
	C1808	NCS21HJ-152X	NCS21HJ-391X	C CAP	390pF 50V K
	D1612	MA111-X	-------------------		DELETE
	Q1118	IMX1-X	IMX1-XW	SI TRANSISTOR	
	Q1608	2SC2412K/QR/-X	-------------------		DELETE
	Q1707	IMX1-X	IMX1-XW	SI TRANSISTOR	
	IC1301	TA78L05F-W	TA78L05F-X	IC	
	IC1413	TA78L05F-W	TA78L05F-X	IC	
	IC1501	EPF10K50VRC2403	EPF10K50VQC2403	IC	
	IC1622	TC4538BF/N/-XE	-------------------		DELETE
	IC1801	TA78L05F-W	TA78L05F-X	IC	

COMB P.W. BOARD ASS'Y (FX-5020A) 〔P3-11〕

⚠	SYMBOL No.	PARTS No.		PARTS NAME	DESCRIPTION
		PREVIOUS	NEW		
	R5010-11	--------------------	NRSA63J-333X	MG R	ADDITION 33kΩ 1/16W J
	R5012	--------------------	QRE141J-223X	MG R	ADDITION 22kΩ 1/16W J
	C5001	QECM1EM-106Z	--------------------		DELETE
	C5003	QECM1EM-106Z	QECM1EM-336Z	BP E CAP	33μF 50V K
	C5005	QETN1EM-476Z	QETN1AM-108Z	E CAP	1000μF 50V M
	C5008	NDC31HJ-6R0X	NDC31HJ-7R0X	CHIP C CAP	7pF 50V J
	C5012	QETN1EM-476Z	QETN1AM-108Z	E CAP	1000μF 50V M
	C5025	--------------------	QETN1AM-476Z	E CAP	47μF 50V M
	D5001	--------------------	1SS133-T2	SI DIODE	ADDITION

SENSOR P.W. BOARD ASS'Y (FX-7008A) 〔P3-12〕

⚠	SYMBOL No.	PARTS No.		PARTS NAME	DESCRIPTION
		PREVIOUS	NEW		
		--------------------	LC40456-002A	LED SPACER	ADDITION

AV P.W. BOARD ASS'Y (FX-8011A) 〔P3-12〕

⚠	SYMBOL No.	PARTS No.		PARTS NAME	DESCRIPTION
		PREVIOUS	NEW		
	R8169	NRSA63J-563X	NRSA63J-823X	MG R	82kΩ 1/16W J
	R8225-27	NRSA63J-102X	NRSA63J-472X	MG R	4.7kΩ 1/16W J
	R8282	NRSA63J-0R0X	NRSA63J-682X	MG R	6.8kΩ 1/16W J
	R8283	NRSA63J-104X	NRSA63J-823X	MG R	82kΩ 1/16W J
	R8306	NRSA63J-473X	NRSA63J-273X	MG R	27kΩ 1/16W J
	R8319	NRSA63J-0R0X	NRSA63J-222X	MG R	2.2kΩ 1/16W J
	R8323-25	NRSA63J-332X	--------------------		DELETE
	R8335	QRE141J-0R0X	--------------------		DELETE
	R8337-38	--------------------	NRSA63J-102X	MG R	ADDITION 1kΩ 1/16W J
	R8339	--------------------	NRSA63J-472X	MG R	ADDITION 4.7kΩ 1/16W J
	C8196	NCB31HK-272X	NCB31HK-103X	C CAP	0.01μF 50V K
	C8332	NDC31HJ-100X	NDC31HJ-103X	CHIP C CAP	22pF 50V J
	C8334	NDC31HJ-220X	NDC31HJ-330X	CHIP C CAP	0.01pF 50V J
	C8353	--------------------	NDC31HJ-151X	CHIP C CAP	ADDITION 150pF 50V J
	Q8136	--------------------	2SC2412K/QR/-K	SI TRANSISTOR	ADDITION
	IC8103	TDA4665	TDA4665/V5	IC	
	IC8126	TA78L09F-W	TA78L09F-X	IC	

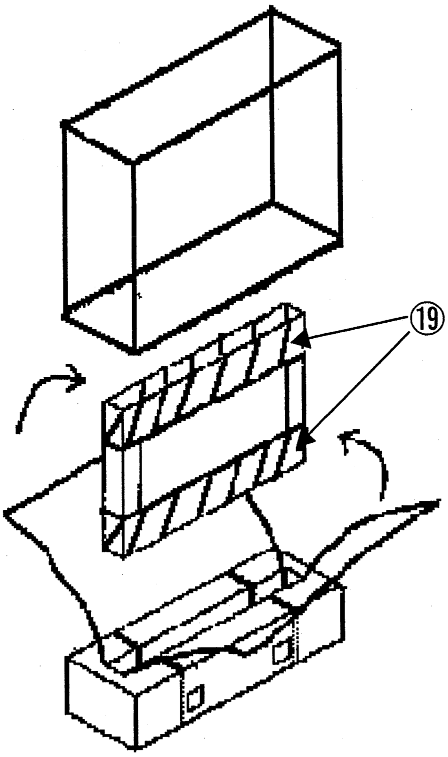
AUDIO P.W. BOARD ASS'Y (FX-8013A) 〔P3-15〕

⚠	SYMBOL No.	PARTS No.		PARTS NAME	DESCRIPTION
		PREVIOUS	NEW		
	R8810-11	--------------------	NRSA63J-104X	MG R	ADDITION 100kΩ 1/16W J
	C8806	--------------------	NCB71HM-475X	E CAP.	ADDITION 4.7μF 50V M
	C8807	--------------------	NCB71HM-106X	E CAP.	ADDITION 10μF 50V M
	D8801	--------------------	MA111-X	SI DIODE	ADDITION
	Q8801	--------------------	IRF4905	F.E.T.	ADDITION

FILTER P.W. BOARD ASS'Y (FX-9063A) 〔P3-15〕

⚠	SYMBOL No.	PARTS No.		PARTS NAME	DESCRIPTION
		PREVIOUS	NEW		
	VA9901	--------------------	QAF0028-471	VARISTOR	ADDITION
	EX9001-02	--------------------	LC40460-001A	EARTH PLATE	ADDITION

PACKING 〔P3-16〕



PACKING PARTS LIST 〔P3-16〕

⚠	REF. No.	PARTS No.		PARTS NAME	DESCRIPTION
		PREVIOUS	NEW		
	1	LC20255-001B	LC20255-001E	TOP CARTON	
	7	QPGA012-03005	QPGA01203005	POLY BAG	
	9	QPGA012-03005	QPGA01203005	POLY BAG	
	11	QPGA012-03005	QPGA01203005	POLY BAG	
	14	CP30975-001	QPA02503505P	POLY BAG	
⚠	15	LCT0318-001A	LCT0318-001B	INST BOOK	
	19	--------------------	QPH18005010	POLY SHEET	ADDITION

VICTOR COMPANY OF JAPAN, LIMITED
PROJECTION & SYSTEM NETWORK BUSINESS UNIT 1106 Heta, Iwai-city, Ibaraki-prefecture, 306-0698, Japan

GD-V4200PZW #16
GD-V4200PZW-G #10

Printed in Japan
VP 0009
M.S./A.O.

JVC

REVISED

SERVICE MANUAL

42"PLASMA DISPLAY MONITOR

BASIC CHASSIS
P1

GD-V4200PZW
GD-V4200PZW-G

Please throw it out the schematic diagram for GD-V4200PZW / GD-V4200PZW-G issued in Sep 1999, and uses this schematic diagram (No.51566 Nov. 2000).

JVC
VICTOR COMPANY OF JAPAN, LIMITED
PROJECTION & SYSTEM NETWORK BUSINESS UNIT 1106 Heta, Iwai-city, Ibaraki-prefecture, 306-0698, Japan

Printed in Japan
VP 0011
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No.51566C
Nov. 2000

GD-V4200PZW / GD-V4200PZW-G
GD-V4200PZW/A / GD-V4200PZW-G/A
GD-V4200PCE / GD-V4200PCE-G

STANDARD CIRCUIT DIAGRAM

REVISED

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	:Colour bar signal
(2)Setting positions of each knob/button and variable resistor	:Original setting position when shipped
(3)Internal resistance of tester	:DC 20kΩ/V
(4)Oscilloscope sweeping time	:H ⇒ 20μS/div
	:V ⇒ 5mS/div
	:Others ⇒ Sweeping time is specified
(5)Voltage values	:All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

●In the PW board :R1209→R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

●Resistance value

No unit	:[Ω]
K	:[KΩ]
M	:[MΩ]

●Rated allowable power

No indication	:1/10[W]
Others	:As specified

●Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflammble resistor
FR	:Fusible resistor

*Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

●Capacitance value

1 or higher	:[pF]
less than 1	:[μF]

●Withstand voltage

No indication	:DC50[V]
AC indicated	:AC withstand voltage [V]
Others	:DC withstand voltage [V]

*Electrolytic Capacitors
47/50[Example]:Capacitance value [μF]/withstand voltage[V]

●Type

No indication	:Ceramic capacitor
MY	:Mylar capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capacitor

(3)Coils

No unit	:[μH]
Others	:As specified

(4)Power Supply

═════	:B1
▬▬▬▬	:B2(12V)
▬□▬□	:9V
□□□□	:5V

*Respective voltage values are indicated

(5)Test point

◉	:Test point
○	:Only test point display

(6)Connecting method

▭	:Connector
○	:Wrapping or soldering
→>— →⊁—	:Receptacle

(7)Ground symbol

⊥	:LIVE side ground
⫫	:ISOLATED(NEUTRAL) side ground
⏚	:EARTH ground
▽	:DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⫫) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◇Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

Nov. 2000 No.51566

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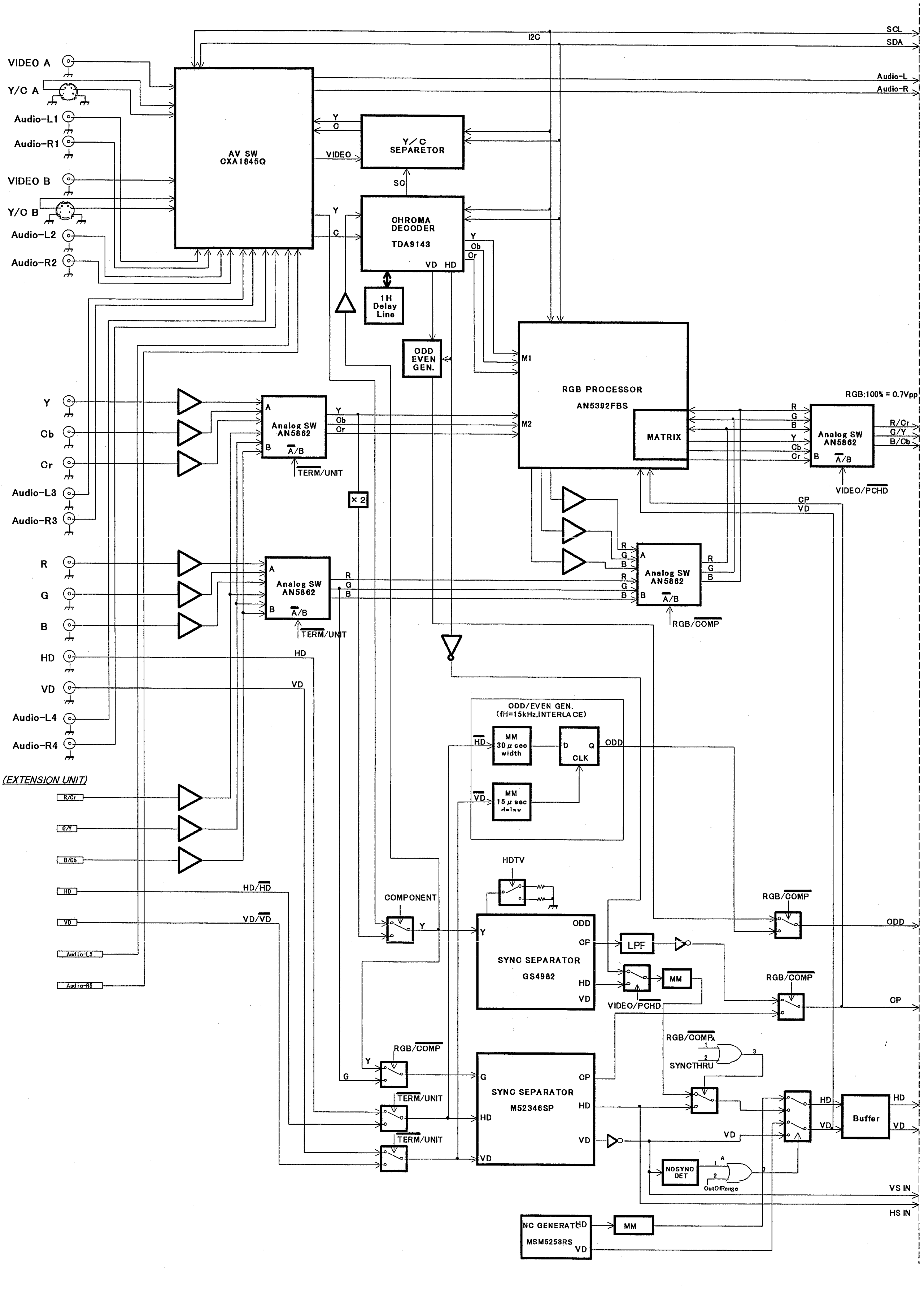
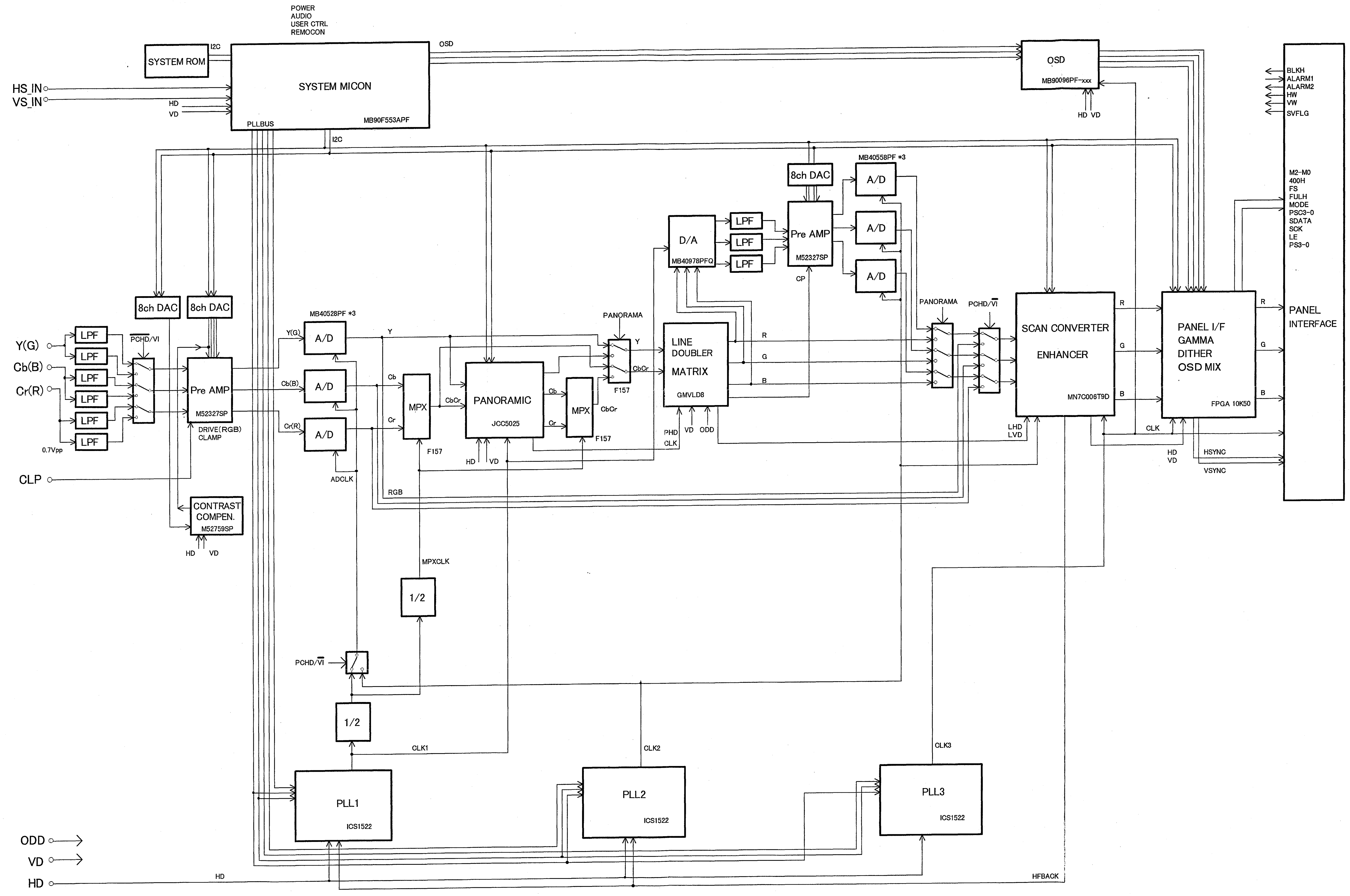
DIFFERENCE LIST

	GD-V4200PZW GD-V4200PZW-G	GD-V4200PZW/A GD-V4200PZW-G/A	GD-V4200PCE GD-V4200PCE-G
TERMINAL PWB ASSY	FX-6065A	←	×
DIGITAL PWB ASSY	FX-1117A	FX-1131A	←
⚠ PDP PANEL UNIT	QLE0004-001	QLE0004-003	←

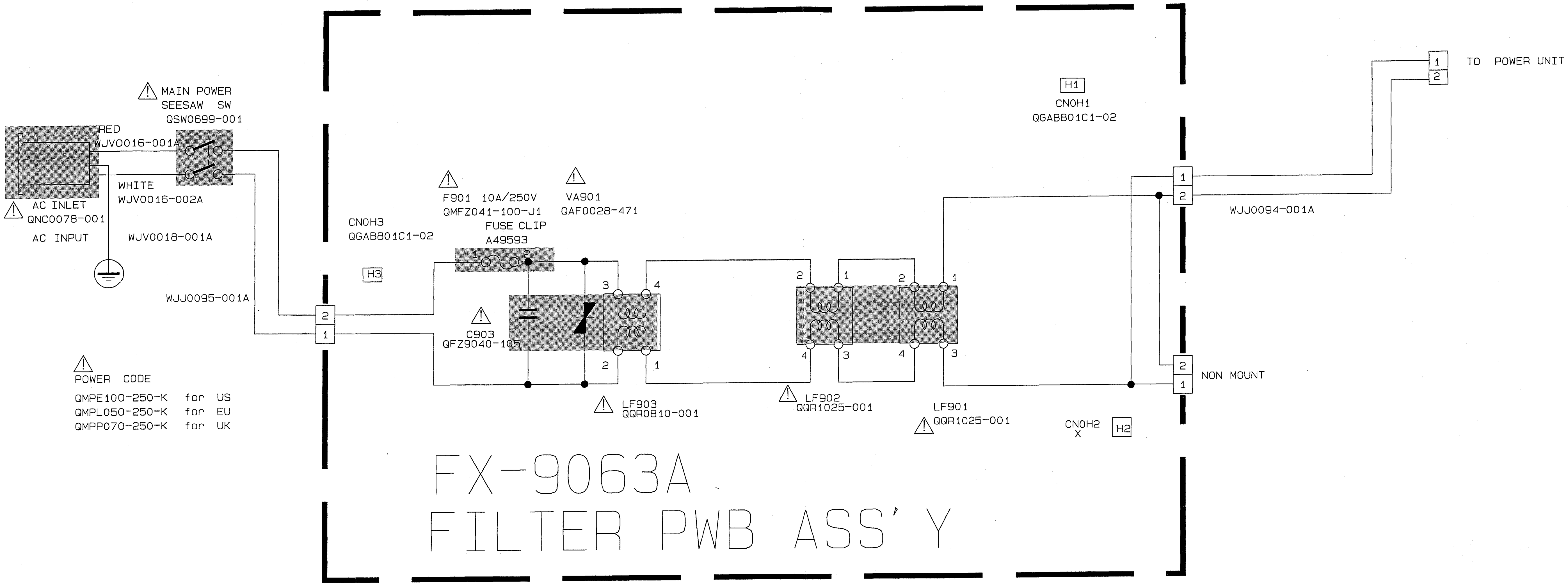
BLOCK DIAGRAM (ANALOG)


SCL
SDA
I2C
Audio-L
Audio-R
VIDEO A
Y/C A
Audio-L1
Audio-R1
VIDEO B
Y/C B
Audio-L2
Audio-R2
AV SW
CXA1845Q
Y
C
VIDEO
Y/C
SEPARETOR
SC
CHROMA
DECODER
TDA9143
VD HD
Cb
Cr
1H
Delay
Line
ODD
EVEN
GEN.
M1
M2
RGB PROCESSOR
AN5392FBS
MATRIX
RGB:100% = 0.7Vpp
R
G
B
Analog SW
AN5862
A/B
R/Cr
G/Y
B/Cb
VIDEO/PCHD
CP
VD
Y
Cb
Cr
Audio-L3
Audio-R3
TERM/UNIT
×2
R
G
B
HD
VD
Audio-L4
Audio-R4
RGB/COMP
(EXTENSION UNIT)
R/Cr
G/Y
B/Cb
HD
VD
Audio-L5
Audio-R5
HD/HD
VD/VD
ODD/EVEN GEN.
(fH=15kHz,INTERLACE)
MM
30μ sec
width
D Q
CLK
ODD
MM
15μ sec
delay
HDTV
COMPONENT
SYNC SEPARATOR
GS4982
ODD
CP
HD
VD
LPF
MM
VIDEO/PCHD
RGB/COMP
RGB/COMP
SYNCTHRU
1
2
3
SYNC SEPARATOR
M52346SP
G
HD
VD
TERM/UNIT
TERM/UNIT
NOSYNC
DET
OutOfRange
A
Buffer
HD
VD
VS IN
HS IN
NC GENERATOR
MSM5258RS
MM
CP
ODD

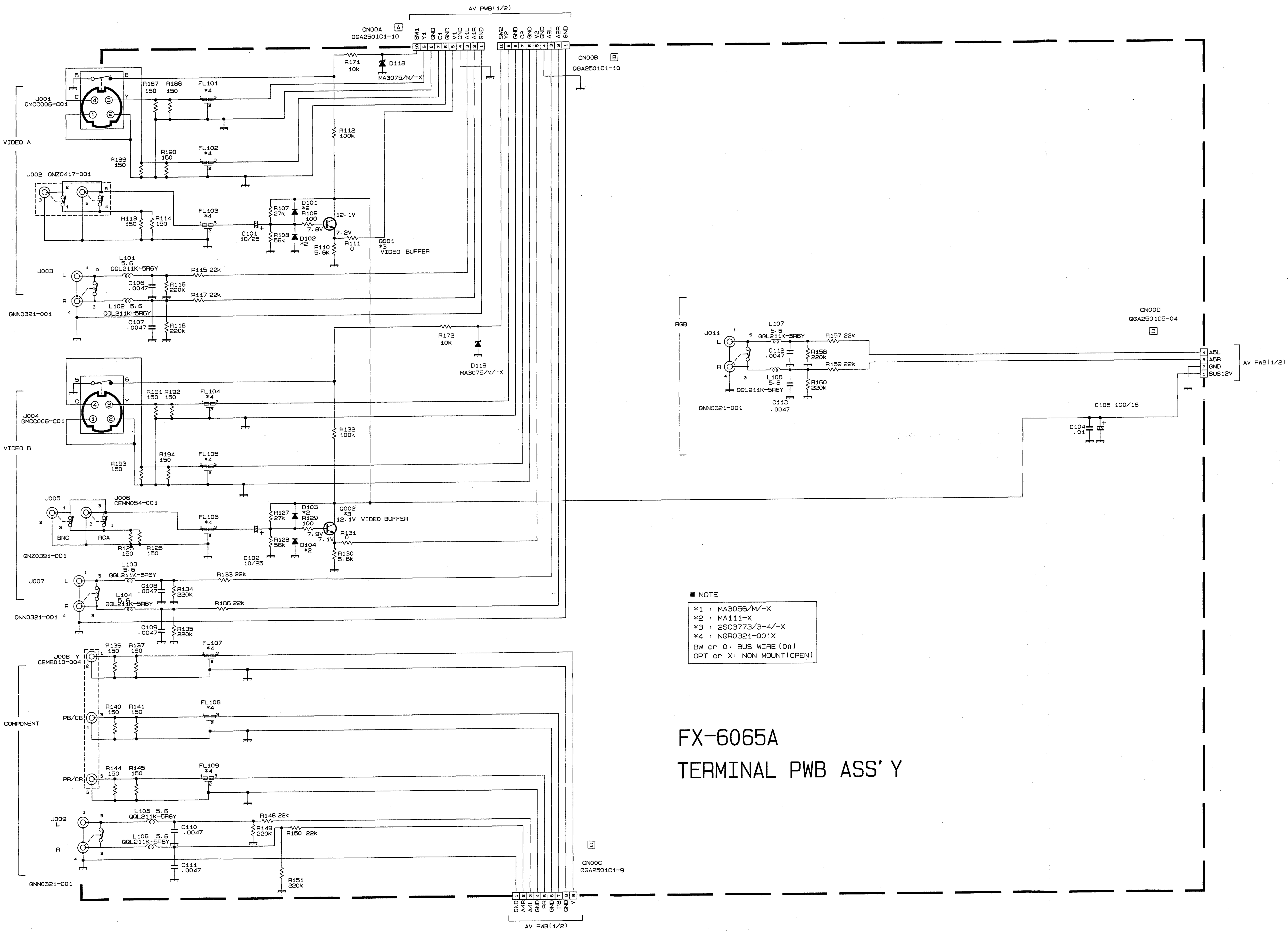
BLOCK DIAGRAM (DIGITAL)


POWER
AUDIO
USER CTRL
REMOCON
SYSTEM ROM
I2C
SYSTEM MICON
MB90F553APF
PLLBUS
OSD
HS_IN
VS_IN
HD
VD
I2C
OSD
MB90096PF-xxx
HD VD
BLKH
ALARM1
ALARM2
HW
VW
SVFLG
M2-M0
400H
FS
FULH
MODE
PSC3-0
SDATA
SCK
LE
PS3-0
PANEL
INTERFACE
8ch DAC
8ch DAC
8ch DAC
MB40558PF *3
A/D
A/D
A/D
D/A
MB40978PFQ
LPF
LPF
LPF
Pre AMP
M52327SP
CP
Y(G)
Cb(B)
Cr(R)
LPF
LPF
LPF
LPF
LPF
LPF
0.7Vpp
PCHD/VI
Pre AMP
M52327SP
DRIVE(RGB)
CLAMP
MB40528PF *3
Y(G)
Cb(B)
Cr(R)
A/D
A/D
A/D
ADCLK
Y
Cb
Cr
MPX
F157
CbCr
PANORAMIC
JCC5025
HD VD
Cb
Cr
MPX
CbCr
F157
PANORAMA
Y
CbCr
F157
LINE
DOUBLER
MATRIX
GMVLD8
PHD
CLK
VD
ODD
R
G
B
PANORAMA
PCHD/VI
SCAN CONVERTER
ENHANCER
MN7C006T9D
LHD
LVD
R
G
B
PANEL I/F
GAMMA
DITHER
OSD MIX
FPGA 10K50
CLK
HD
VD
HSYNC
VSYNC
R
G
B
CLP
RGB
CONTRAST
COMPEN.
M52759SP
HD VD
MPXCLK
1/2
PCHD/VI
1/2
CLK1
CLK2
CLK3
PLL1
ICS1522
PLL2
ICS1522
PLL3
ICS1522
ODD
VD
HD
HD
HFBACK

CIRCUIT DIAGRAMS *[FILTER PWB CIRCUIT DIAGRAM]*


⚠ MAIN POWER
SEESAW SW
QSW0699-001
RED
WJV0016-001A
WHITE
WJV0016-002A
⚠ AC INLET
QNC0078-001
AC INPUT
WJV0018-001A
WJJ0095-001A
⚠ POWER CODE
QMPE100-250-K for US
QMPL050-250-K for EU
QMPP070-250-K for UK
CNOH3
QGAB801C1-02
H3
2
1
⚠ F901 10A/250V
QMFZ041-100-J1
FUSE CLIP
A49593
⚠ VA901
QAF0028-471
⚠ C903
QFZ9040-105
3
4
2
1
⚠ LF903
QQR0810-001
⚠ LF902
QQR1025-001
LF901
⚠ QQR1025-001
H1
CNOH1
QGAB801C1-02
WJJ0094-001A
TO POWER UNIT
NON MOUNT
CNOH2
X
H2
FX-9063A
FILTER PWB ASS' Y

[TERMINAL PWB CIRCUIT DIAGRAM] (GD-V4200PZW / GD-V4200PZW-G / GD-V4200PZW/A / GD-V4200PZW-G/A)

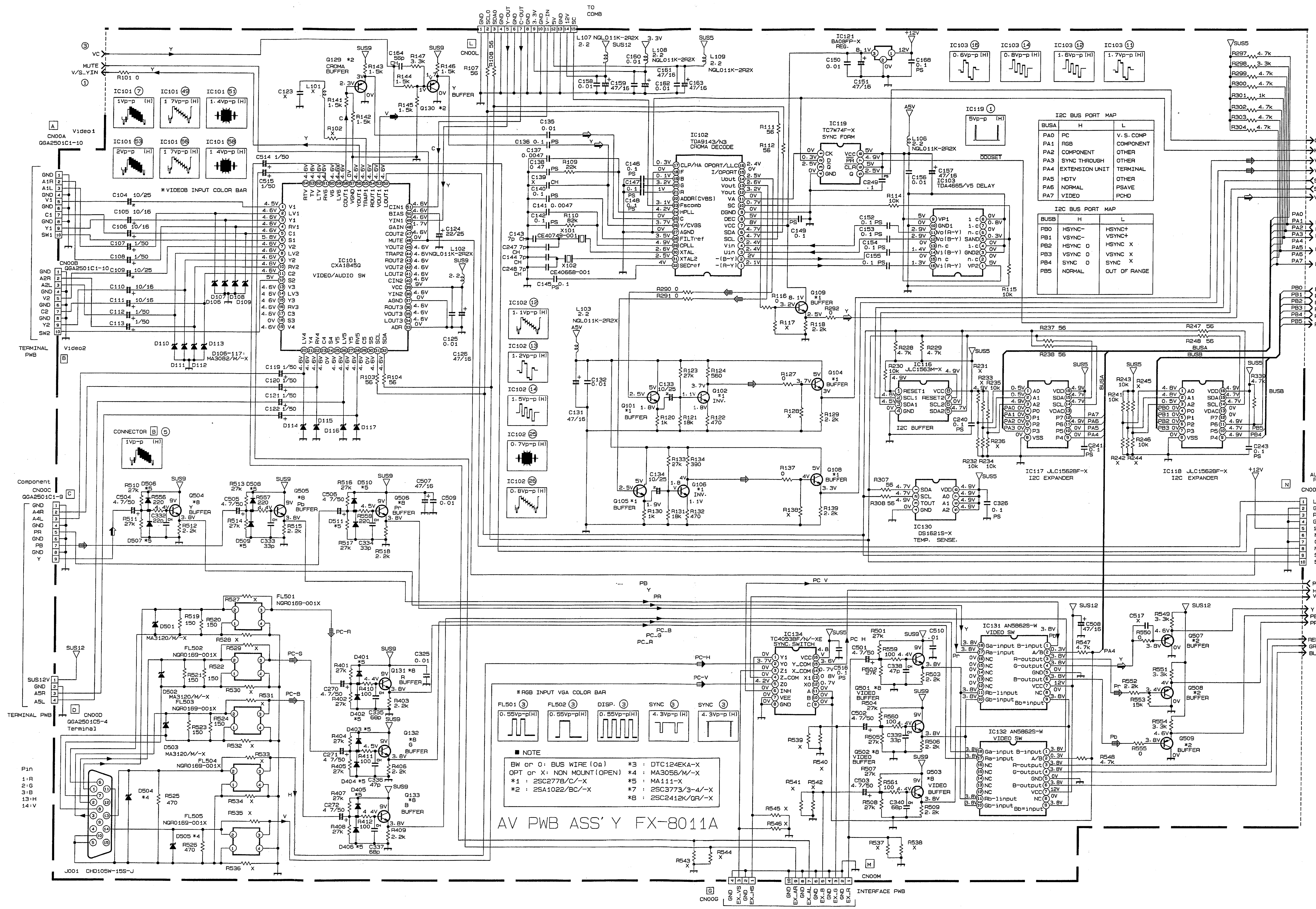

AV PWB(1/2)
CN00A A
QGA2501C1-10
SW1 Y1 GND C1 GND V1 GND A1L A1R GND
SW2 Y2 GND C2 GND V2 GND A2L A2R GND
CN00B B
QGA2501C1-10
R171 10k
D118 MA3075/M/-X
J001 QMCC006-C01
VIDEO A
R187 150
R188 150
FL101 *4
R112 100k
R189 150
R190 150
FL102 *4
J002 QNZ0417-001
R113 150
R114 150
FL103 *4
C101 10/25
R107 27k
R108 56k
D101 *2
D102 *2
R109 100
7.8V
12.1V
7.2V
R110 5.6k
R111 0
Q001 *3 VIDEO BUFFER
J003
L101 5.6 QQL211K-5R6Y
R115 22k
C106 .0047
R116 220k
R117 22k
L102 5.6 QQL211K-5R6Y
C107 .0047
R118 220k
QNN0321-001
R172 10k
D119 MA3075/M/-X
J004 QMCC006-C01
VIDEO B
R191 150
R192 150
FL104 *4
R132 100k
R193 150
R194 150
FL105 *4
J005
J006 CEMN054-001
BNC
RCA
QNZ0391-001
R125 150
R126 150
FL106 *4
C102 10/25
R127 27k
R128 56k
D103 *2
D104 *2
R129 100
Q002 *3 VIDEO BUFFER
12.1V
7.9V
7.1V
R131 0
R130 5.6k
J007
L103 5.6 QQL211K-5R6Y
R133 22k
C108 .0047
R134 220k
L104 5.6 QQL211K-5R6Y
R186 22k
C109 .0047
R135 220k
QNN0321-001
J008 Y CEMB010-004
R136 150
R137 150
FL107 *4
COMPONENT
PB/CB
R140 150
R141 150
FL108 *4
PR/CR
R144 150
R145 150
FL109 *4
J009 L
R
L105 5.6 QQL211K-5R6Y
R148 22k
C110 .0047
R149 220k
R150 22k
L106 5.6 QQL211K-5R6Y
C111 .0047
R151 220k
QNN0321-001
C
CN00C
QGA2501C1-9
GND A4R A4L GND PR GND PB GND Y
AV PWB(1/2)
RGB
J011
L107 5.6 QQL211K-5R6Y
R157 22k
C112 .0047
R158 220k
R159 22k
L108 5.6 QQL211K-5R6Y
R160 220k
C113 .0047
QNN0321-001
CN00D
QGA2501C5-04
D
A5L
A5R
GND
SUS12V
AV PWB(1/2)
C105 100/16
C104 .01

■ NOTE

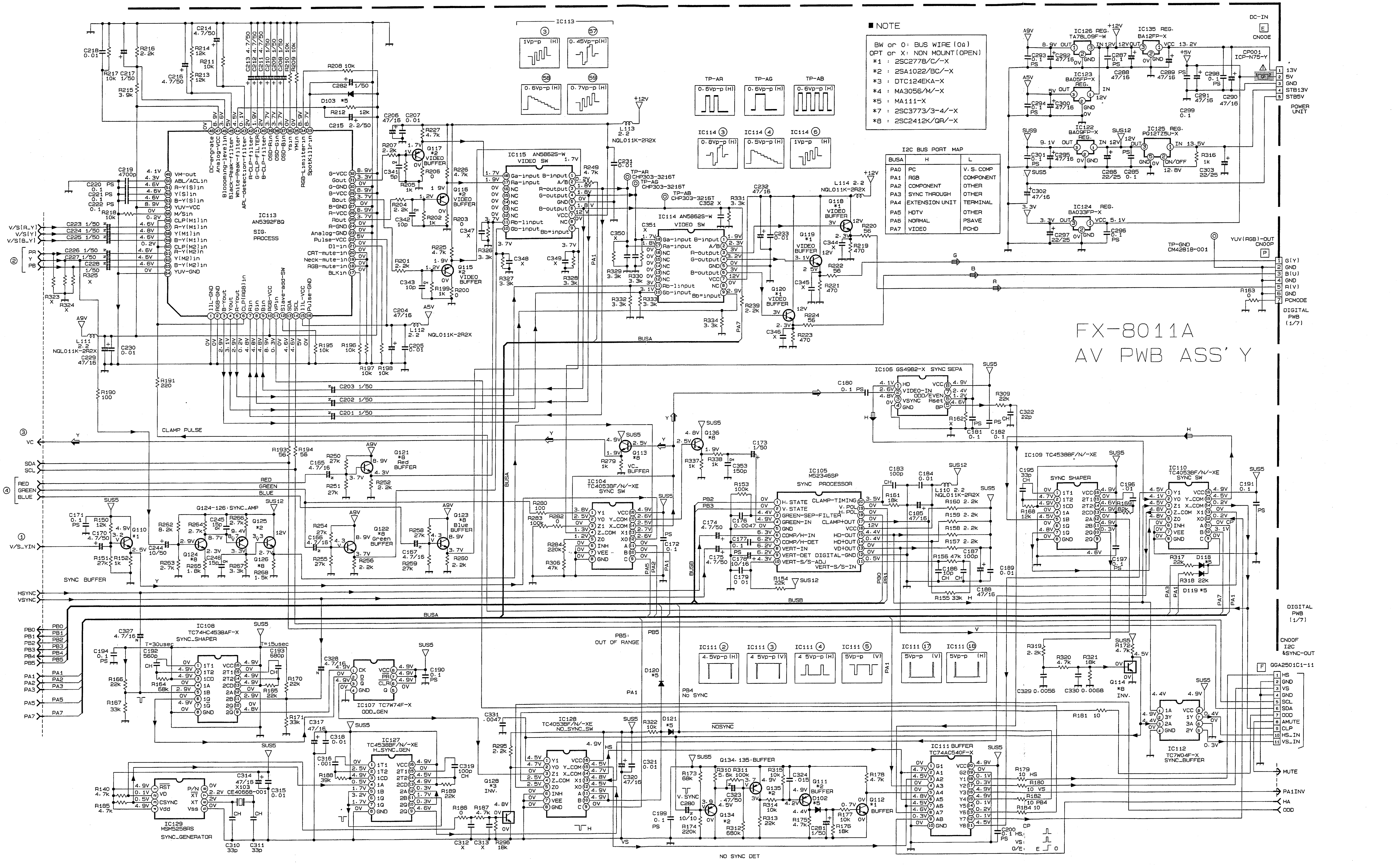
*1 : MA3056/M/-X
*2 : MA111-X
*3 : 2SC3773/3-4/-X
*4 : NQR0321-001X
BW or 0: BUS WIRE (0Ω)
OPT or X: NON MOUNT(OPEN)

FX-6065A
TERMINAL PWB ASS'Y

[AV PWB CIRCUIT DIAGRAM (1/2)]


AV PWB ASS'Y FX-8011A
IC101 CXA1845Q VIDEO/AUDIO SW
IC102 TDA9143/N3 CROMA DECODE
IC103 TDA4665/V5 DELAY
IC119 TC7W74F-X SYNC FORM
IC121 BA08FP-X REG.
IC116 JLC1563M-X I2C BUFFER
IC117 JLC1562BF-X I2C EXPANDER
IC118 JLC1562BF-X I2C EXPANDER
IC130 DS1621S-X TEMP. SENSE.
IC131 AN5862S-W VIDEO SW
IC132 AN5862S-W VIDEO SW
IC134 TC4053BF/N/-XE SYNC. SWITCH
I2C BUS PORT MAP
BUSA H L
PA0 PC V.S.COMP
PA1 RGB COMPONENT
PA2 COMPONENT OTHER
PA3 SYNC THROUGH OTHER
PA4 EXTENSION UNIT TERMINAL
PA5 HDTV OTHER
PA6 NORMAL PSAVE
PA7 VIDEO PCHD
I2C BUS PORT MAP
BUSB H L
PB0 HSYNC- HSYNC+
PB1 VSYNC- VSYNC+
PB2 HSYNC O HSYNC X
PB3 VSYNC O VSYNC X
PB4 SYNC O SYNC X
PB5 NORMAL OUT OF RANGE
*VIDEOB INPUT COLOR BAR
*RGB INPUT VGA COLOR BAR
■ NOTE
BW or O: BUS WIRE (0Ω)
OPT or X: NON MOUNT(OPEN)
*1 : 2SC2778/C/-X
*2 : 2SA1022/BC/-X
*3 : DTC124EKA-X
*4 : MA3056/M/-X
*5 : MA111-X
*7 : 2SC3773/3-4/-X
*8 : 2SC2412K/GR/-X
TO COMB
Video1
Video2
TERMINAL PWB
Component
AUDIO PWB
INTERFACE PWB
J001 CHD105W-15S-J

[AV PWB CIRCUIT DIAGRAM (2/2)]


FX-8011A
AV PWB ASS'Y
IC113 AN5392FBQ SIG. PROCESS
IC115 AN5862S-W VIDEO SW
IC114 AN5862S-W VIDEO SW
IC126 REG. TA78L09F-W
IC135 REG. BA12FP-X
IC123 BA05FP-X REG.
IC122 BA09FP-X REG.
IC125 REG. PQ12TZ5U-X
IC124 REG. BA033FP-X
CP001 ICP-N75-Y
POWER UNIT
DC-IN
CN00E
TP-AR CHP303-3216T
TP-AG CHP303-3216T
TP-AB CHP303-3216T
TP-GND CM42818-001
YUV(RGB)-OUT CN00P
DIGITAL PWB (1/7)
IC106 GS4982-X SYNC SEPA
IC104 TC4053BF/N/-XE SYNC SW
IC105 M52346SP SYNC PROCESSOR
IC109 TC4538BF/N/-XE SYNC SHAPER
IC110 TC4053BF/N/-XE SYNC SW
Q124-126:SYNC_AMP
SYNC BUFFER
IC108 TC74HC4538AF-X SYNC_SHAPER
IC107 TC7W74F-X ODD_GEN
IC127 TC4538BF/N/-XE H_SYNC_GEN
IC129 MSM5258RS SYNC_GENERATOR
IC128 TC4053BF/N/-XE NO_SYNC_SW
Q134·135:BUFFER
NO SYNC DET
IC111 BUFFER TC74AC540F-X
IC112 TC7W04F-X SYNC_BUFFER
Q114 *8 INV.
DIGITAL PWB (1/7)
CN00F I2C &SYNC-OUT
QGA2501C1-11
BUSA
BUSB
CLAMP PULSE
PB5: OUT OF RANGE
PB4: NO SYNC
NOSYNC
V/S[R_Y]
V/S[Y]
V/S[B_Y]
V/S_YIN
VC
SDA
SCL
RED
GREEN
BLUE
HSYNC
VSYNC
MUTE
PA1INV
HA
ODD

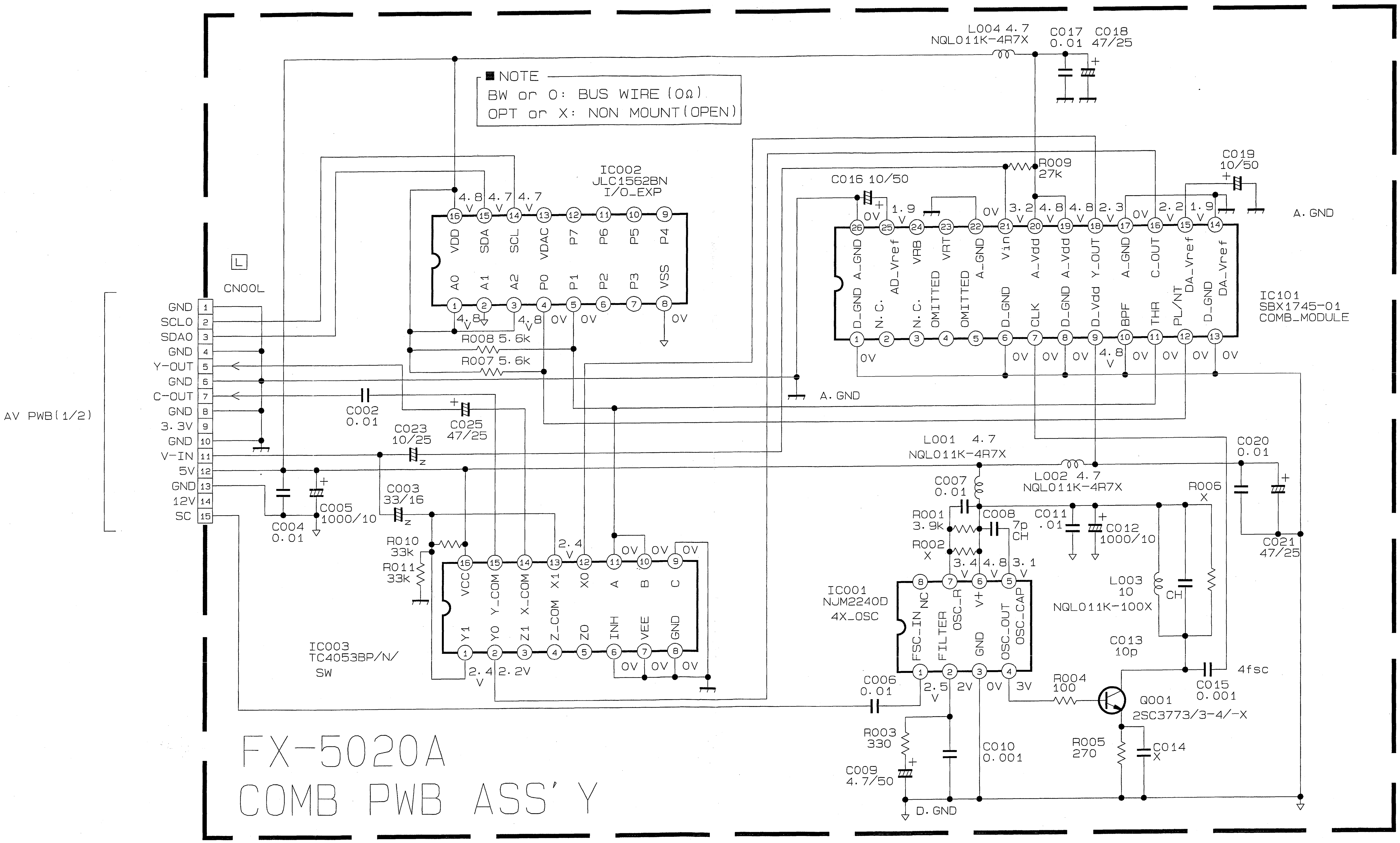
■ NOTE

BW or 0: BUS WIRE (0Ω)
OPT or X: NON MOUNT (OPEN)
*1 : 2SC2778/C/-X
*2 : 2SA1022/BC/-X
*3 : DTC124EKA-X
*4 : MA3056/M/-X
*5 : MA111-X
*7 : 2SC3773/3-4/-X
*8 : 2SC2412K/QR/-X

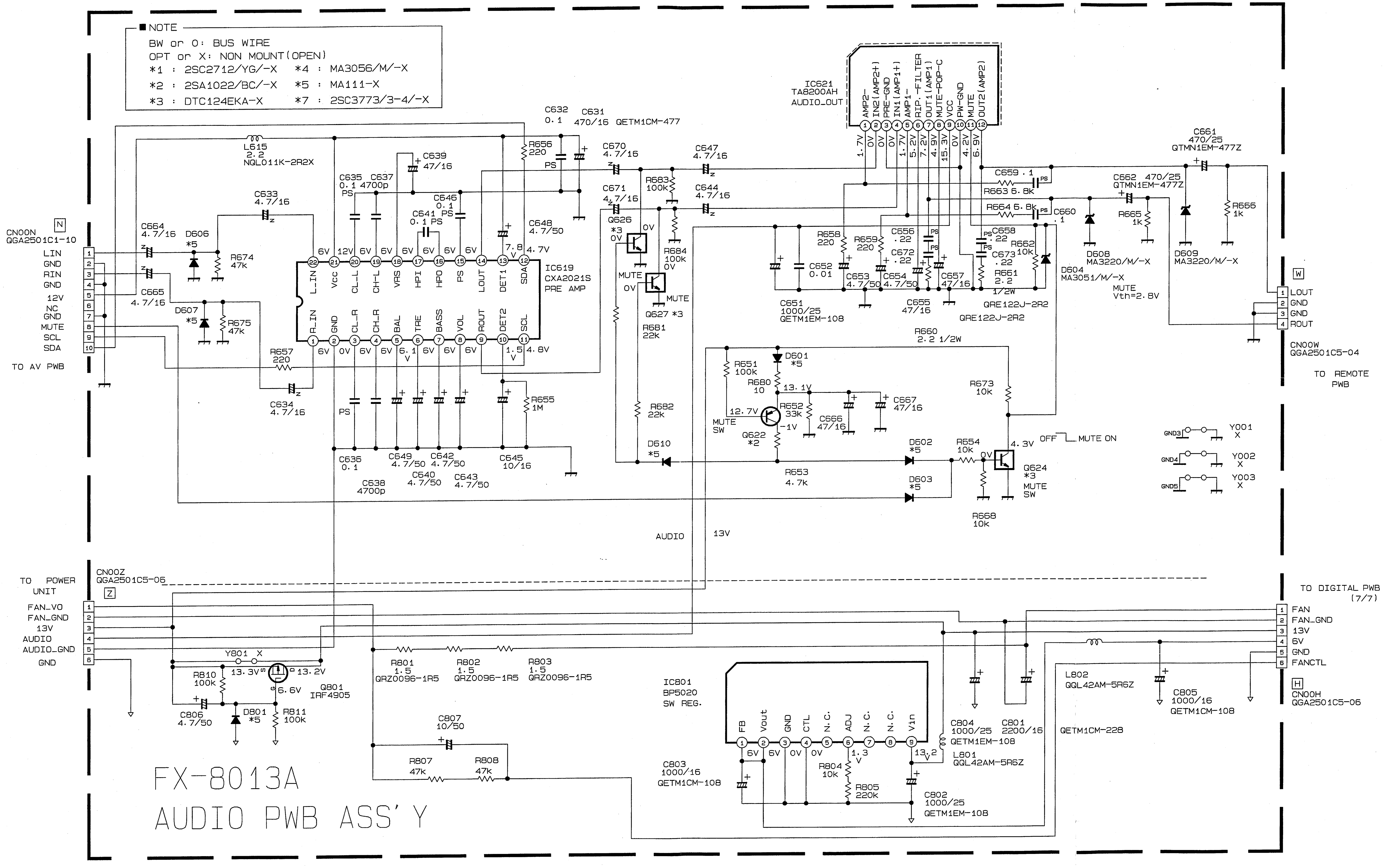
I2C BUS PORT MAP

BUSA	H	L
PA0	PC	V. S. COMP
PA1	RGB	COMPONENT
PA2	COMPONENT	OTHER
PA3	SYNC THROUGH	OTHER
PA4	EXTENSION UNIT	TERMINAL
PA5	HDTV	OTHER
PA6	NORMAL	PSAVE
PA7	VIDEO	PCHD

[COMB PWB CIRCUIT DIAGRAM]

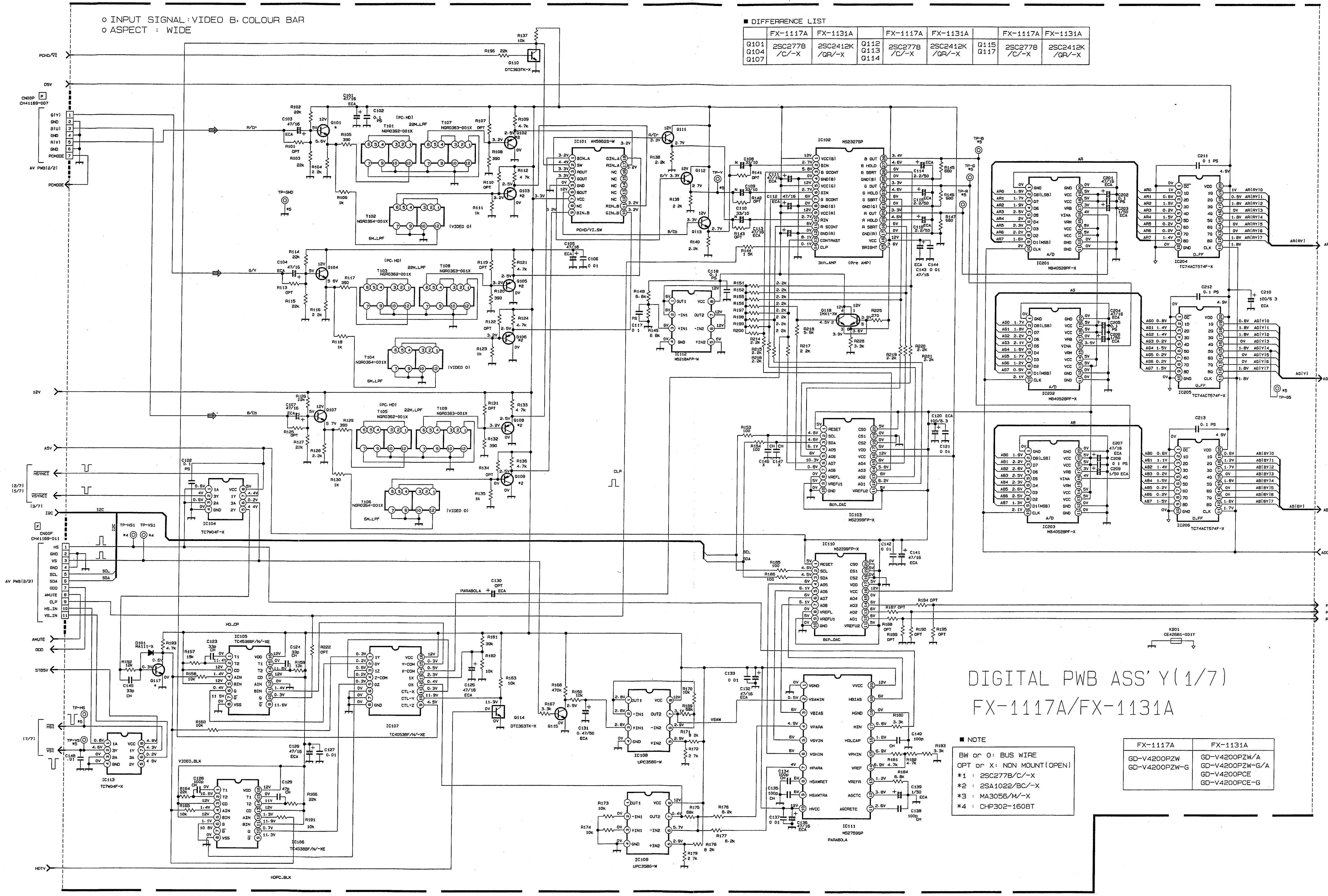

■ NOTE
BW or O: BUS WIRE (0Ω)
OPT or X: NON MOUNT (OPEN)
FX-5020A
COMB PWB ASS'Y
AV PWB (1/2)
CN001
GND 1
SCL0 2
SDA0 3
GND 4
Y-OUT 5
GND 6
C-OUT 7
GND 8
3.3V 9
GND 10
V-IN 11
5V 12
GND 13
12V 14
SC 15
IC002 JLC1562BN I/O_EXP
VDD SDA SCL VDAC P7 P6 P5 P4
A0 A1 A2 P0 P1 P2 P3 VSS
R008 5.6k
R007 5.6k
C002 0.01
C023 10/25
C025 47/25
C003 33/16
C004 0.01
C005 1000/10
R010 33k
R011 33k
IC003 TC4053BP/N/ SW
VCC Y_COM X_COM X1 X0 A B C
Y1 Y0 Z1 Z_COM Z0 INH VEE GND
L004 4.7 NQL011K-4R7X
C017 0.01
C018 47/25
R009 27k
C016 10/50
C019 10/50
A. GND
IC101 SBX1745-01 COMB_MODULE
D_GND A_GND, AD_Vref, VRB, VRT, A_GND, Vin, A_Vdd, A_Vdd, Y_OUT, A_GND, C_OUT, DA_Vref, DA_Vref
D_GND, N.C., N.C., OMITTED, OMITTED, D_GND, CLK, D_GND, D_Vdd, BPF, THR, PL/NT, D_GND
L001 4.7 NQL011K-4R7X
L002 4.7 NQL011K-4R7X
C020 0.01
C021 47/25
C007 0.01
R001 3.9k
R002 X
C008 7p CH
C011 .01
C012 1000/10
R006 X
L003 10 NQL011K-100X
IC001 NJM2240D 4X_OSC
NC OSC_R V+ OSC_CAP
FSC_IN FILTER GND OSC_OUT
C013 10p
C015 0.001
4fsc
C006 0.01
R004 100
Q001 2SC3773/3-4/-X
R003 330
C009 4.7/50
C010 0.001
R005 270
C014 X
D. GND

[AUDIO PWB CIRCUIT DIAGRAM]


■ NOTE
BW or O: BUS WIRE
OPT or X: NON MOUNT(OPEN)
*1 : 2SC2712/YG/-X
*2 : 2SA1022/BC/-X
*3 : DTC124EKA-X
*4 : MA3056/M/-X
*5 : MA111-X
*7 : 2SC3773/3-4/-X
CN00N QGA2501C1-10
LIN
GND
RIN
GND
12V
NC
GND
MUTE
SCL
SDA
TO AV PWB
IC619 CXA2021S PRE AMP
IC621 TA8200AH AUDIO_OUT
AMP2-
IN2(AMP2+)
PRE-GND
IN1(AMP1+)
AMP1-
RIP.-FILTER
OUT1(AMP1)
MUTE-POP-C
VCC
PW-GND
MUTE
OUT2(AMP2)
L615 2.2 NQL011K-2R2X
C632 0.1
C631 470/16 QETM1CM-477
R656 220
C661 470/25 QTMN1EM-477Z
C662 470/25 QTMN1EM-477Z
C651 1000/25 QETM1EM-108
R660 2.2 1/2W
R661 2.2 1/2W QRE122J-2R2
D608 MA3220/M/-X
D609 MA3220/M/-X
D604 MA3051/M/-X
MUTE Vth=2.8V
CN00W QGA2501C5-04
LOUT
GND
GND
ROUT
TO REMOTE PWB
Q626 *3
Q627 *3
Q622 *2
Q624 *3
MUTE SW
OFF MUTE ON
Y001 X
Y002 X
Y003 X
AUDIO
13V
CN00Z QGA2501C5-06
TO POWER UNIT
FAN_VO
FAN_GND
13V
AUDIO
AUDIO_GND
GND
TO DIGITAL PWB (7/7)
FAN
FAN_GND
13V
6V
GND
FANCTL
CN00H QGA2501C5-06
Y801 X
Q801 IRF4905
R801 1.5 QRZ0096-1R5
R802 1.5 QRZ0096-1R5
R803 1.5 QRZ0096-1R5
IC801 BP5020 SW REG.
FB
Vout
GND
CTL
N.C.
ADJ
N.C.
N.C.
Vin
C804 1000/25 QETM1EM-108
C801 2200/16 QETM1CM-228
L801 QQL42AM-5R6Z
L802 QQL42AM-5R6Z
C805 1000/16 QETM1CM-108
C803 1000/16 QETM1CM-108
C802 1000/25 QETM1EM-108
C807 10/50
R807 47k
R808 47k
FX-8013A
AUDIO PWB ASS'Y

GD-V4200PZW
GD-V4200PZW-G
GD-V4200PCE
GD-V4200PCE-G

[DIGITAL PWB CIRCUIT DIAGRAM (1/7)]


PCHD/VI
D5V
CN00P
CH41169-007
G(Y)
GND
B(U)
GND
R(V)
GND
PCMODE
AV PWB(2/2)
12V
A5V
HSYNCI
VSYNCI
(2/7)
(5/7)
(3/7)
I2C
CN00F
CH41169-011
HS
GND
VS
GND
SCL
SDA
ODD
AMUTE
CLP
HS_IN
VS_IN
AMUTE
ODD
ST85V
HS1
VS1
(7/7)
HDTV
TP-GND
TP-HS1
TP-VS1
TP-HS
TP-VS
R/Cr
G/Y
B/Cb
(PC-HD)
22M_LPF
6M_LPF
(VIDEO 0)
T101 NQR0362-001X
T107 NQR0363-001X
T102 NQR0364-001X
T103 NQR0362-001X
T108 NQR0363-001X
T104 NQR0364-001X
T105 NQR0362-001X
T109 NQR0363-001X
T106 NQR0364-001X
Q110 DTC363TK-X
IC101 AN5862S-W
PCHD/VI_SW
IC102 M52327SP
3ch_AMP
(Pre AMP)
IC103 M52399FP-X
8ch_DAC
IC104 TC7W04F-X
IC105 TC4538BF/N/-XE
IC106 TC4538BF/N/-XE
IC107 TC4053BF/N/-XE
IC108 UPC358G-W
IC109 UPC358G-W
IC110 M52399FP-X
8ch_DAC
IC111 M52759SP
PARABOLA
IC112 M5218AFP-W
IC113 TC7W04F-X
Q114 DTC363TK-X
Q116 IMX1-XN
IC201 MB40528PF-X
IC202 MB40528PF-X
IC203 MB40528PF-X
A/D
IC204 TC74ACT574F-X
IC205 TC74ACT574F-X
IC206 TC74ACT574F-X
D_FF
AR
AG
AB
AR(RY)
AG(Y)
AB(BY)
ADCLK
PHASE3
PHASE2
PHASE1
X201 CE42681-001Y
CLP
HD_CP
VIDEO_BLK
HDPC_BLK
VSAW
PARABOLA
TP-R
TP-G
TP-B
TP-Y
TP-G5
SCL
SDA

○ INPUT SIGNAL : VIDEO B, COLOUR BAR
○ ASPECT : WIDE

■ DIFFERRENCE LIST

	FX-1117A	FX-1131A		FX-1117A	FX-1131A		FX-1117A	FX-1131A
Q101 Q104 Q107	2SC2778 /C/-X	2SC2412K /QR/-X	Q112 Q113 Q114	2SC2778 /C/-X	2SC2412K /QR/-X	Q115 Q117	2SC2778 /C/-X	2SC2412K /QR/-X

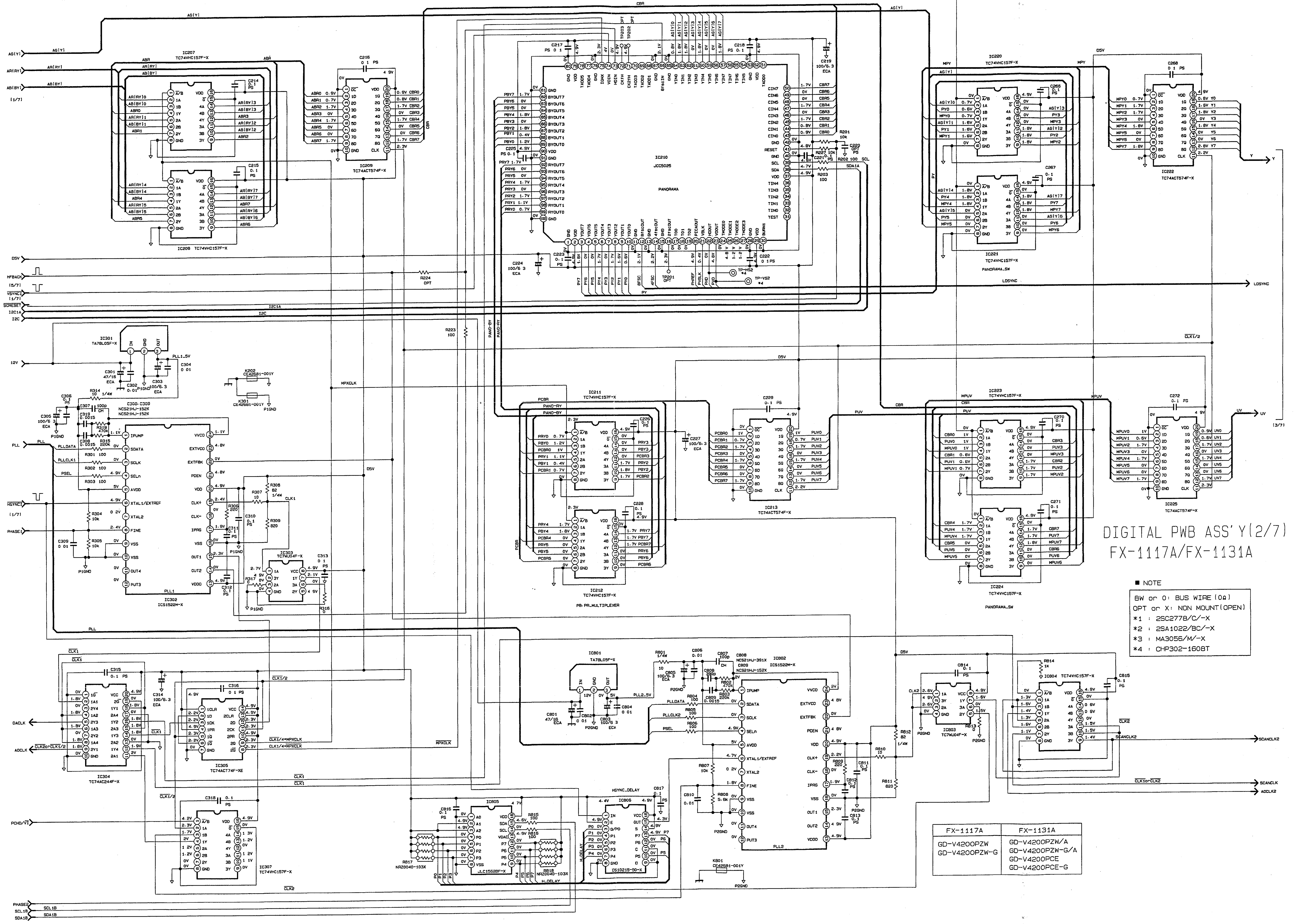
DIGITAL PWB ASS'Y(1/7)
FX-1117A/FX-1131A

■ NOTE

BW or O: BUS WIRE
OPT or X: NON MOUNT(OPEN)
*1 : 2SC2778/C/-X
*2 : 2SA1022/BC/-X
*3 : MA3056/M/-X
*4 : CHP302-1608T

FX-1117A	FX-1131A
GD-V4200PZW GD-V4200PZW-G	GD-V4200PZW/A GD-V4200PZW-G/A GD-V4200PCE GD-V4200PCE-G

[DIGITAL PWB CIRCUIT DIAGRAM (2/7)]


IC207 TC74VHC157F-X
IC208 TC74VHC157F-X
IC209 TC74ACT574F-X
IC210 JCC5025 PANORAMA
IC211 TC74VHC157F-X
IC212 TC74VHC157F-X
PB·PR_MULTIPLEXER
IC213 TC74ACT574F-X
IC220 TC74VHC157F-X
IC221 TC74VHC157F-X
PANORAMA_SW
IC222 TC74ACT574F-X
IC223 TC74VHC157F-X
IC224 TC74VHC157F-X
PANORAMA_SW
IC225 TC74ACT574F-X
IC301 TA78L05F-X
IC302 ICS1522M-X
PLL1
IC303 TC7WU04F-X
IC304 TC74AC244F-X
IC305 TC74AC174F-XE
IC307 TC74VHC157F-X
IC801 TA78L05F-X
IC802 ICS1522M-X
PLL2
IC803 TC7WU04F-X
IC804 TC74VHC157F-X
IC805 JLC1562BF-X
IC806 DS1021S-50-X
HSYNC_DELAY
H_DELAY
X202 CE42681-001Y
X301 CE42681-001Y
X801 CE42681-001Y
AG(Y)
AR(RY)
AB(BY)
(1/7)
D5V
HFBACK
(5/7)
VSYNC1
(1/7)
SCRESET
I2C1A
I2C
12V
PLL
HSYNC1
(1/7)
PHASE1
PANORAMA
Y
LDSYNC
UV
(3/7)
DACLK
ADCLK
PCHD/VI
PHASE2
SCL1B
SDA1B
SCANCLK2
SCANCLK
ADCLK2
CLK1/2
CLK2
MPXCLK
CLK1orCLK2
TP-HS2
TP-VS2
TP201 OPT

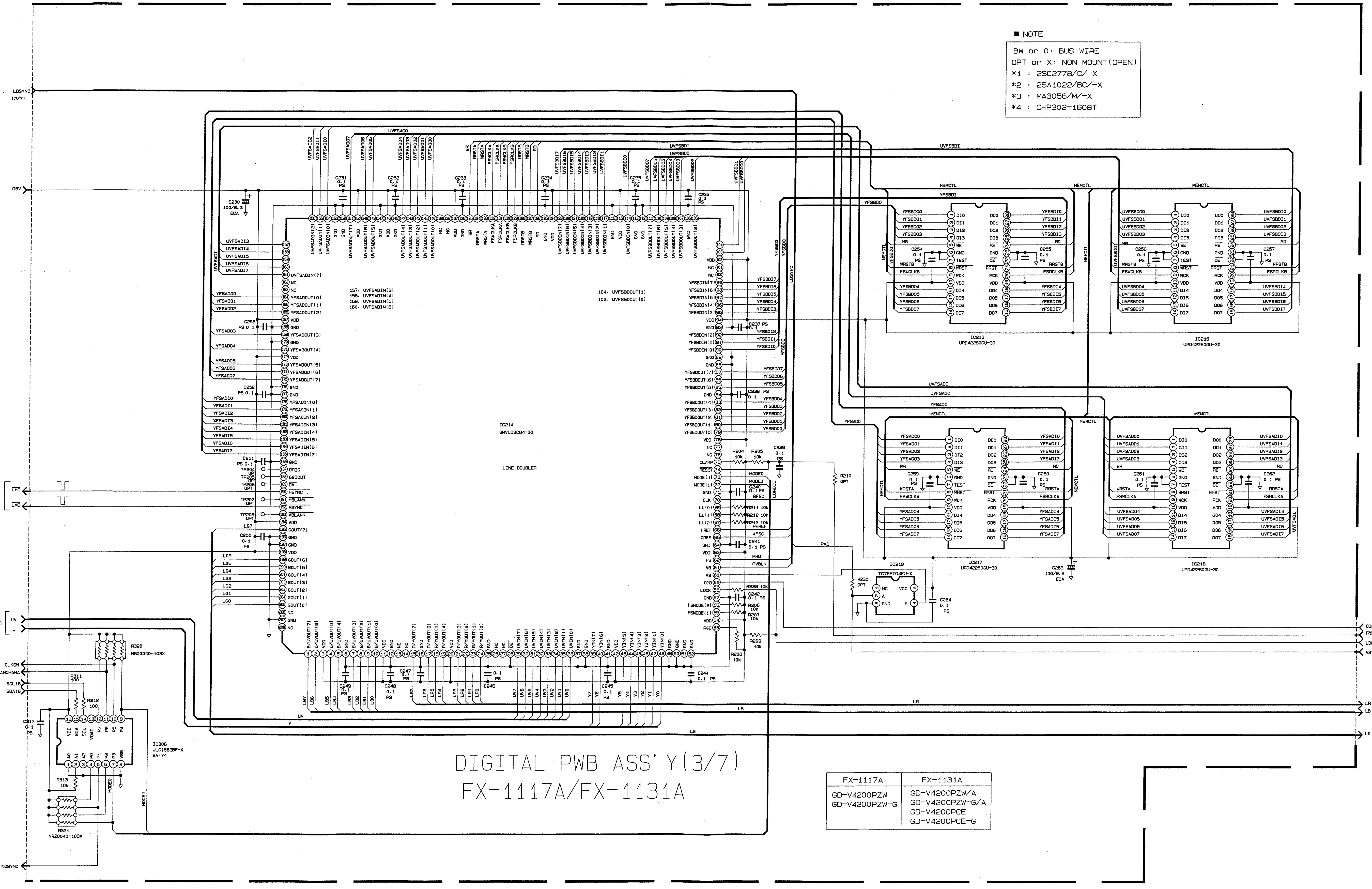
DIGITAL PWB ASS'Y(2/7)
FX-1117A/FX-1131A

■ NOTE

BW or 0: BUS WIRE (0Ω)
OPT or X: NON MOUNT(OPEN)
*1 : 2SC2778/C/-X
*2 : 2SA1022/BC/-X
*3 : MA3056/M/-X
*4 : CHP302-1608T

FX-1117A	FX-1131A
GD-V4200PZW GD-V4200PZW-G	GD-V4200PZW/A GD-V4200PZW-G/A GD-V4200PCE GD-V4200PCE-G

[DIGITAL PWB CIRCUIT DIAGRAM (3/7)]

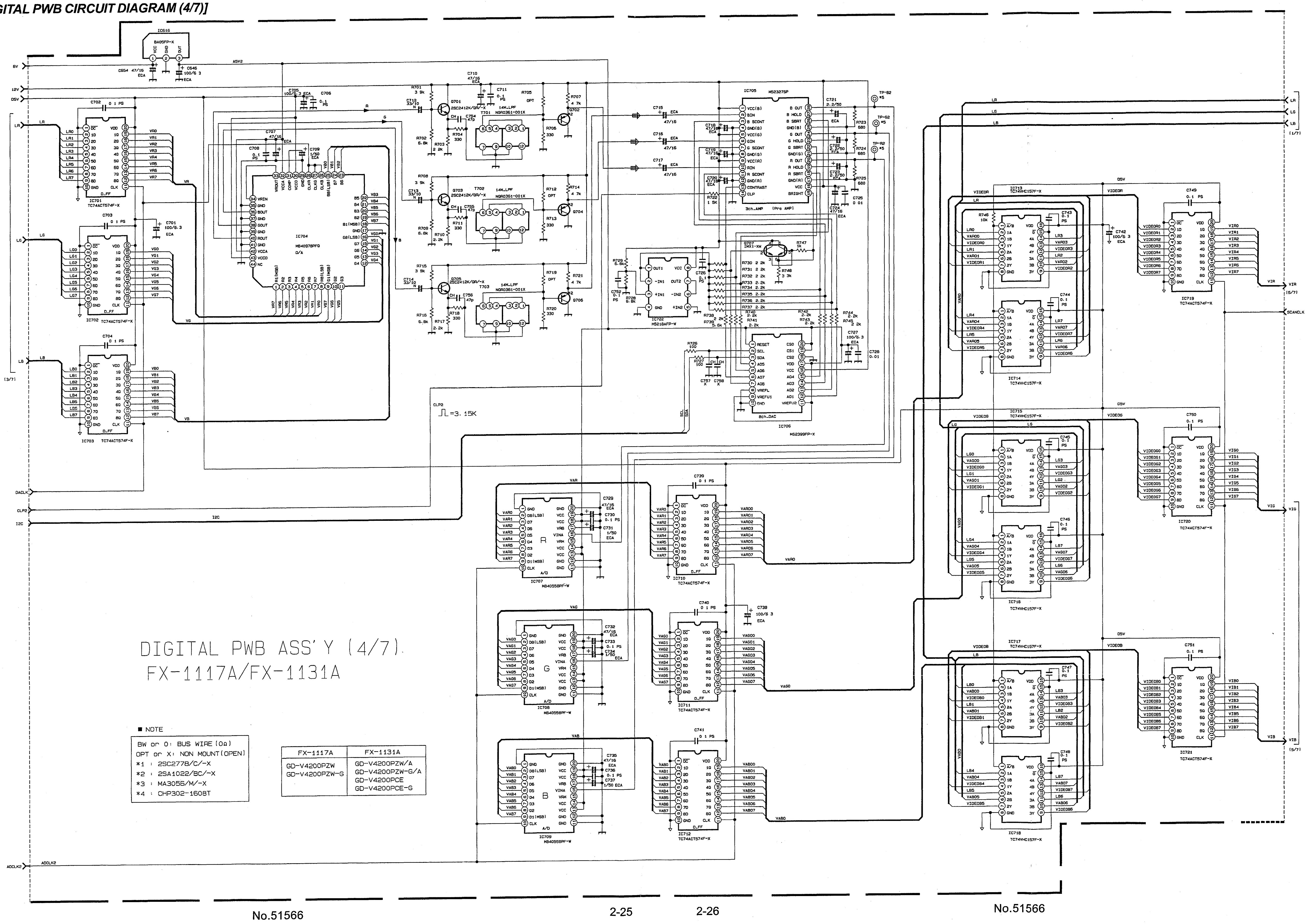

LDSYNC
(2/7)
D5V
LHD
LVD
(5/7)
UV
Y
(2/7)
CLKSW
PANORAMA
SCL1B
SDA1B
NOSYNC
IC214
GMVLD8C04-30
LINE_DOUBLER
IC215
UPD42280GU-30
IC216
UPD42280GU-30
IC217
UPD42280GU-30
IC218
UPD42280GU-30
IC219
TC7SET04FU-X
IC306
JLC1552BF-X
SA-74
R320
NRZ0040-103X
R321
NRZ0040-103X
ODD
LDRESET
LDLOCK
VSYNC1
(1/7)
LR
LB
LG
(4/7)
DIGITAL PWB ASS'Y(3/7)
FX-1117A/FX-1131A

■ NOTE

BW or O: BUS WIRE
OPT or X: NON MOUNT(OPEN)
*1 : 2SC2778/C/-X
*2 : 2SA1022/BC/-X
*3 : MA3056/M/-X
*4 : CHP302-1608T

FX-1117A	FX-1131A
GD-V4200PZW GD-V4200PZW-G	GD-V4200PZW/A GD-V4200PZW-G/A GD-V4200PCE GD-V4200PCE-G

[DIGITAL PWB CIRCUIT DIAGRAM (4/7)]

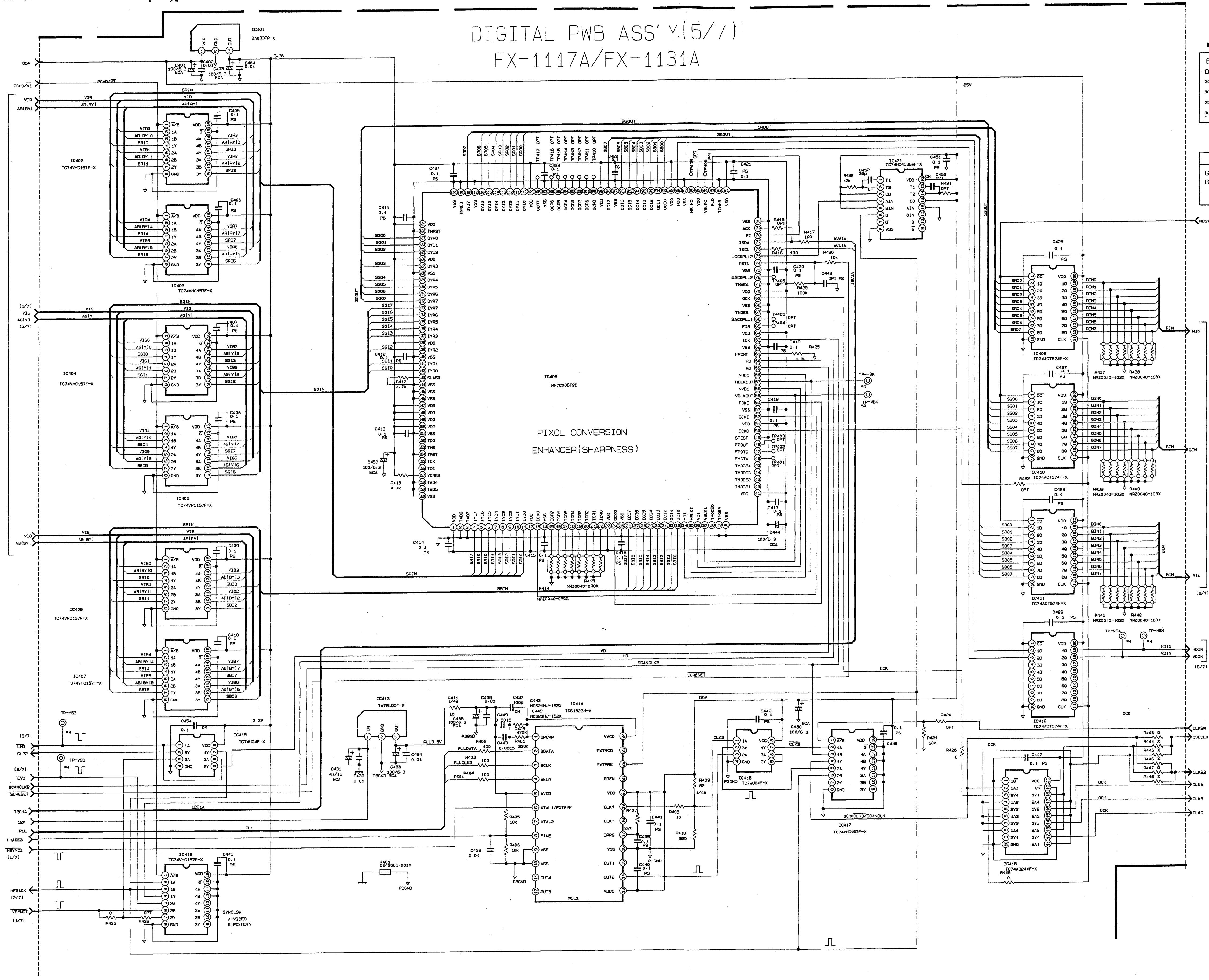

DIGITAL PWB ASS'Y (4/7)
FX-1117A/FX-1131A
IC616 BA05FP-X
IC701 TC74ACT574F-X
IC702 TC74ACT574F-X
IC703 TC74ACT574F-X
IC704 MB40978PFG D/A
IC705 M52325P 3ch.AMP (Pre AMP)
IC706 M62399FP-X 8ch.DAC
IC702 M5218AFP-W
IC707 MB40558PF-W A/D
IC708 MB40558PF-W A/D
IC709 MB40558PF-W A/D
IC710 TC74ACT574F-X
IC711 TC74ACT574F-X
IC712 TC74ACT574F-X
IC713 TC74VHC157F-X
IC714 TC74VHC157F-X
IC715 TC74VHC157F-X
IC716 TC74VHC157F-X
IC717 TC74VHC157F-X
IC718 TC74VHC157F-X
IC719 TC74ACT574F-X
IC720 TC74ACT574F-X
IC721 TC74ACT574F-X
Q701 2SC2412K/QR/-X
Q703 2SC2412K/QR/-X
Q705 2SC2412K/QR/-X
Q707 IMX1-XM
T701 14M_LPF NQR0361-001X
T702 14M_LPF NQR0361-001X
T703 14M_LPF NQR0361-001X
5V
12V
D5V
A5V2
LR
LG
LB
[3/7]
[1/7]
VIR
VIG
VIB
[5/7]
SCANCLK
DACLK
CLP2
I2C
ADCLK2
CLP2 =3.15K
TP-B2
TP-G2
TP-R2
VAR
VAG
VAB
R
G
B

■ NOTE

BW or 0: BUS WIRE (0Ω)
OPT or X: NON MOUNT(OPEN)
*1 : 2SC2778/C/-X
*2 : 2SA1022/BC/-X
*3 : MA3056/M/-X
*4 : CHP302-1608T

FX-1117A	FX-1131A
GD-V4200PZW GD-V4200PZW-G	GD-V4200PZW/A GD-V4200PZW-G/A GD-V4200PCE GD-V4200PCE-G

[DIGITAL PWB CIRCUIT DIAGRAM (5/7)]

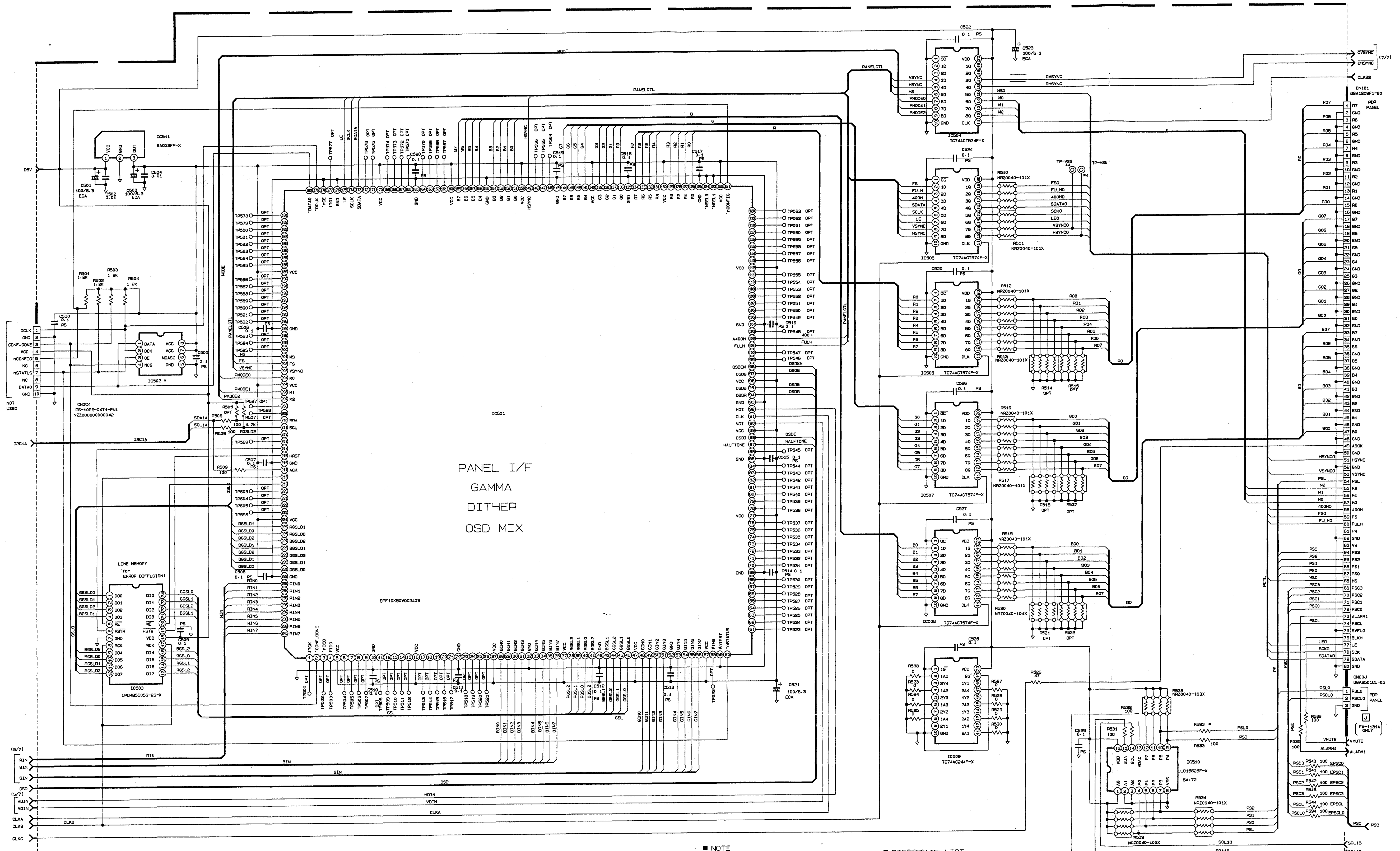

DIGITAL PWB ASS'Y(5/7)
FX-1117A/FX-1131A
IC401 BA033FP-X
IC402 TC74VHC157F-X
IC403 TC74VHC157F-X
IC404 TC74VHC157F-X
IC405 TC74VHC157F-X
IC406 TC74VHC157F-X
IC407 TC74VHC157F-X
IC408 MN7C006T9D
PIXCL CONVERSION
ENHANCER(SHARPNESS)
IC409 TC74ACT574F-X
IC410 TC74ACT574F-X
IC411 TC74ACT574F-X
IC412 TC74ACT574F-X
IC413 TA78L05F-X
IC414 ICS1522M-X
IC415 TC7WU04F-X
IC416 TC74VHC157F-X
IC417 TC74VHC157F-X
IC418 TC74AC244F-X
IC419 TC7WU04F-X
IC421 TC74HC4538AF-X
PLL3
D5V
PCHD/VI
VIR
AR(RY)
VIG
AG(Y)
VIB
AB(BY)
SRIN
SGIN
SBIN
SGOUT
SROUT
SBOUT
NOSYNC
RIN
GIN
BIN
HDIN
VDIN
CLKSM
OSDCLK
CLKB2
CLKA
CLKB
CLKC
TP-HS3
TP-VS3
TP-VS4
TP-HS4
TP-HBK
TP-VBK
LVD
CLP2
SCANCLK2
SCRESET
I2C1A
12V
PLL
PHASE3
HSYNC1
HFBACK
VSYNC1
SYNC_SW
A:VIDEO
B:PC-HSTV
DCK
X401 CE42681-001Y
P3GND
3.3V
(1/7)
(2/7)
(3/7)
(4/7)
(6/7)

■ NOTE

BW or O: BUS WIRE
OPT or X: NON MOUNT(OPEN)
*1 : 2SC2778/C/-X
*2 : 2SA1022/BC/-X
*3 : MA3056/M/-X
*4 : CHP302-1608T

FX-1117A	FX-1131A
GD-V4200PZW GD-V4200PZW-G	GD-V4200PZW/A GD-V4200PZW-G/A GD-V4200PCE GD-V4200PCE-G

[DIGITAL PWB CIRCUIT DIAGRAM (6/7)]


IC501
PANEL I/F
GAMMA
DITHER
OSD MIX
EPF10K50VQC240-3
IC511
BA033FP-X
IC502 *
IC503
UPD485505G-25-X
LINE MEMORY
(for ERROR DIFFUSION)
IC504
TC74ACT574F-X
IC505
IC506
IC507
IC508
IC509
TC74AC244F-X
IC510
LC1562BF-X
CN101
GGA1209F1-80
PDP PANEL
CN00J
GGA2501C5-03
CN004
PS-10PE-D4T1-PN1
D5V
I2C1A
NOT USED
PANELCTL
MODE
RIN
BIN
GIN
OSD
HDIN
VDIN
CLKA
CLKB
CLKC
DVSYNC
DHSYNC
CLKB2
(7/7)
(5/7)
PSC
SCL1B
SDA1B
FANCTL

DIGITAL PWB ASS' Y (6/7)

FX-1117A/FX-1131A

FX-1117A	FX-1131A
GD-V4200PZW GD-V4200PZW-G	GD-V4200PZW/A GD-V4200PZW-G/A GD-V4200PCE GD-V4200PCE-G

K501
CE42681-001Y

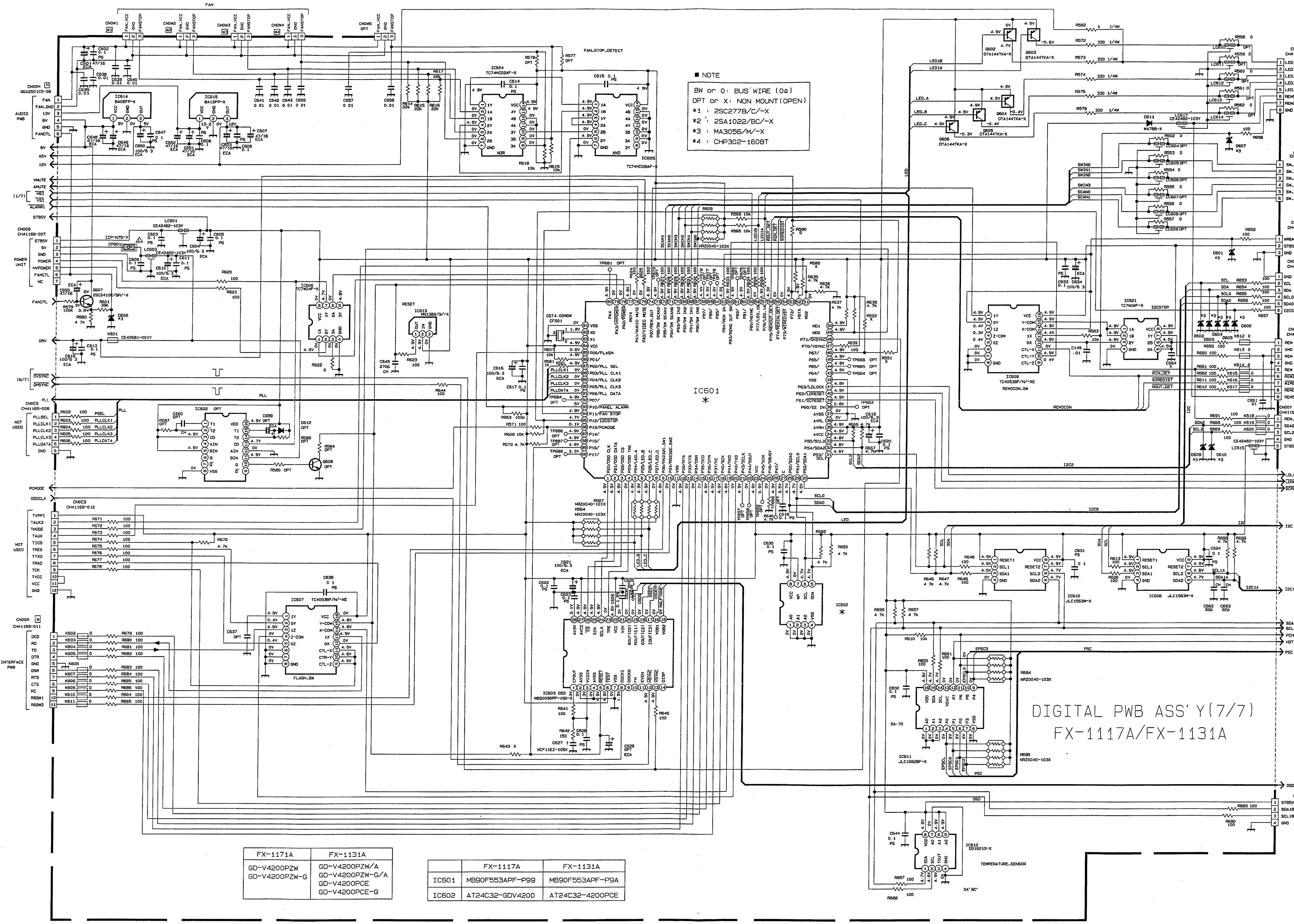
■ NOTE

BW or 0: BUS WIRE (0Ω)
OPT or X: NON MOUNT (OPEN)
*1 : 2SC2778/C/-X
*2 : 2SA1022/BC/-X
*3 : MA3056/M/-X
*4 : CHP302-160BT

■ DIFFERENCE LIST

	FX-1117A	FX-1131A
CN00J	X	0
R593	X	100
R594	X	100
IC502	EPC1PC8-GDV4200	EPC1PC8-4200PCE

[DIGITAL PWB CIRCUIT DIAGRAM (7/7)]


FAN
CN00H
AUDIO PWB
POWER UNIT
CN00G
CN00S
CN00C
CN00R
INTERFACE PWB
NOT USED
IC614 BA05FP-X
IC615 BA12FP-X
IC604 TC74HC02AF-X
IC605 TC74HC08AF-X
IC606 TC7W04F-X
IC613 MN1382/Q/-X
IC622
IC601
IC602
IC603 OSD
IC607 TC4053BF/N/-XE
FLASH_SW
IC609 TC4053BF/N/-XE
REMOCON_SW
IC621 TC7W08F-X
IC610 JLC1563N-X
IC608 JLC1563N-X
IC611 JLC1562BF-X
IC612 DS1621S-X
TEMPERATURE_SENSOR
CN00X
SENSOR PWB
CN00T
CONTROL PWB
CN0C2
CN0C1
CN00U
REMOTE PWB
CN00Y
INTERFACE PWB
CN00V
DIGITAL PWB ASS'Y(7/7)
FX-1117A/FX-1131A

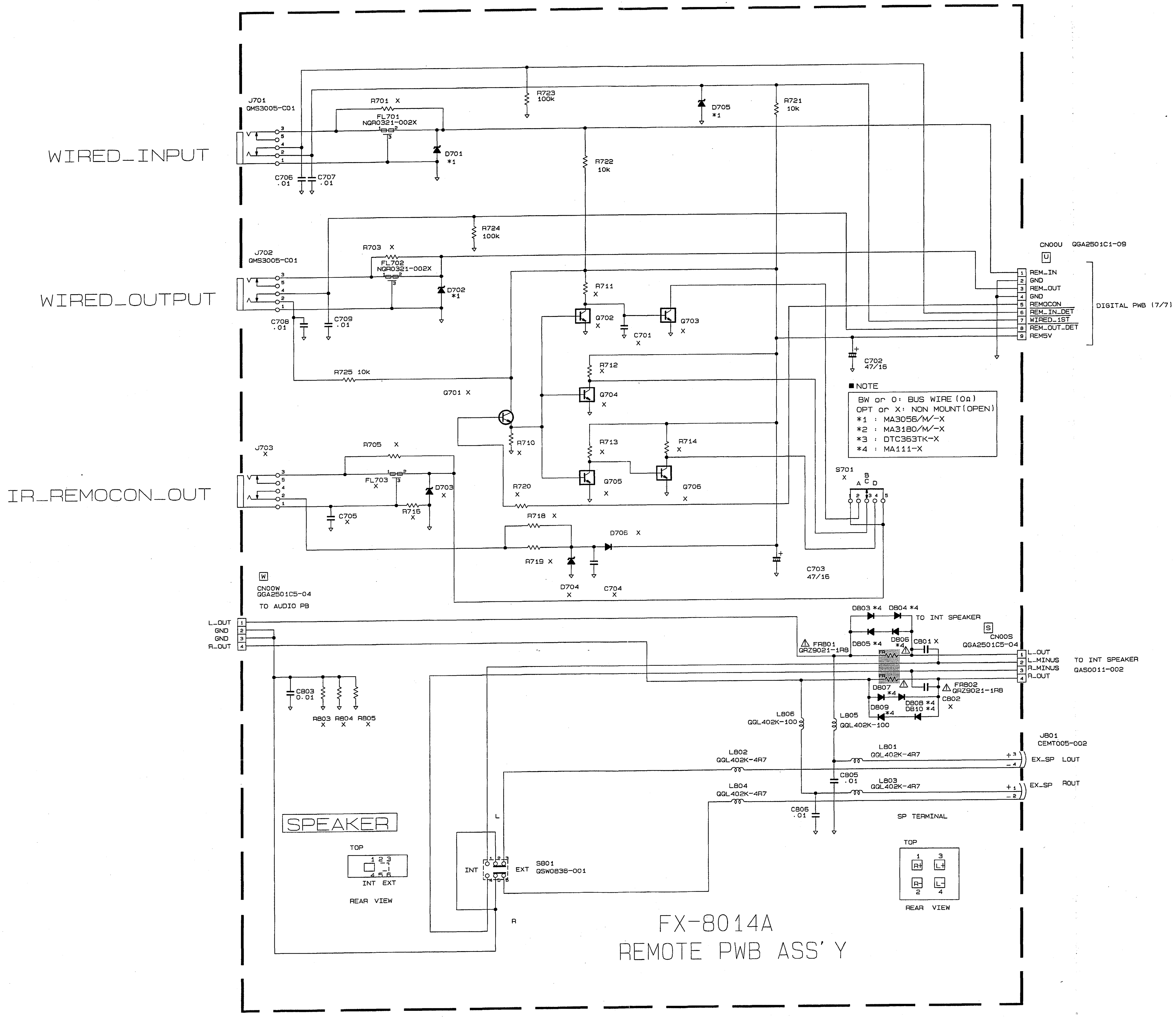
■ NOTE

BW or 0: BUS WIRE (0Ω)
OPT or X: NON MOUNT(OPEN)
*1 : 2SC2778/C/-X
*2 : 2SA1022/BC/-X
*3 : MA3056/M/-X
*4 : CHP302-1608T

FX-1171A	FX-1131A
GD-V4200PZW GD-V4200PZW-G	GD-V4200PZW/A GD-V4200PZW-G/A GD-V4200PCE GD-V4200PCE-G

	FX-1117A	FX-1131A
IC601	MB90F553APF-P99	MB90F553APF-P9A
IC602	AT24C32-GDV4200	AT24C32-4200PCE

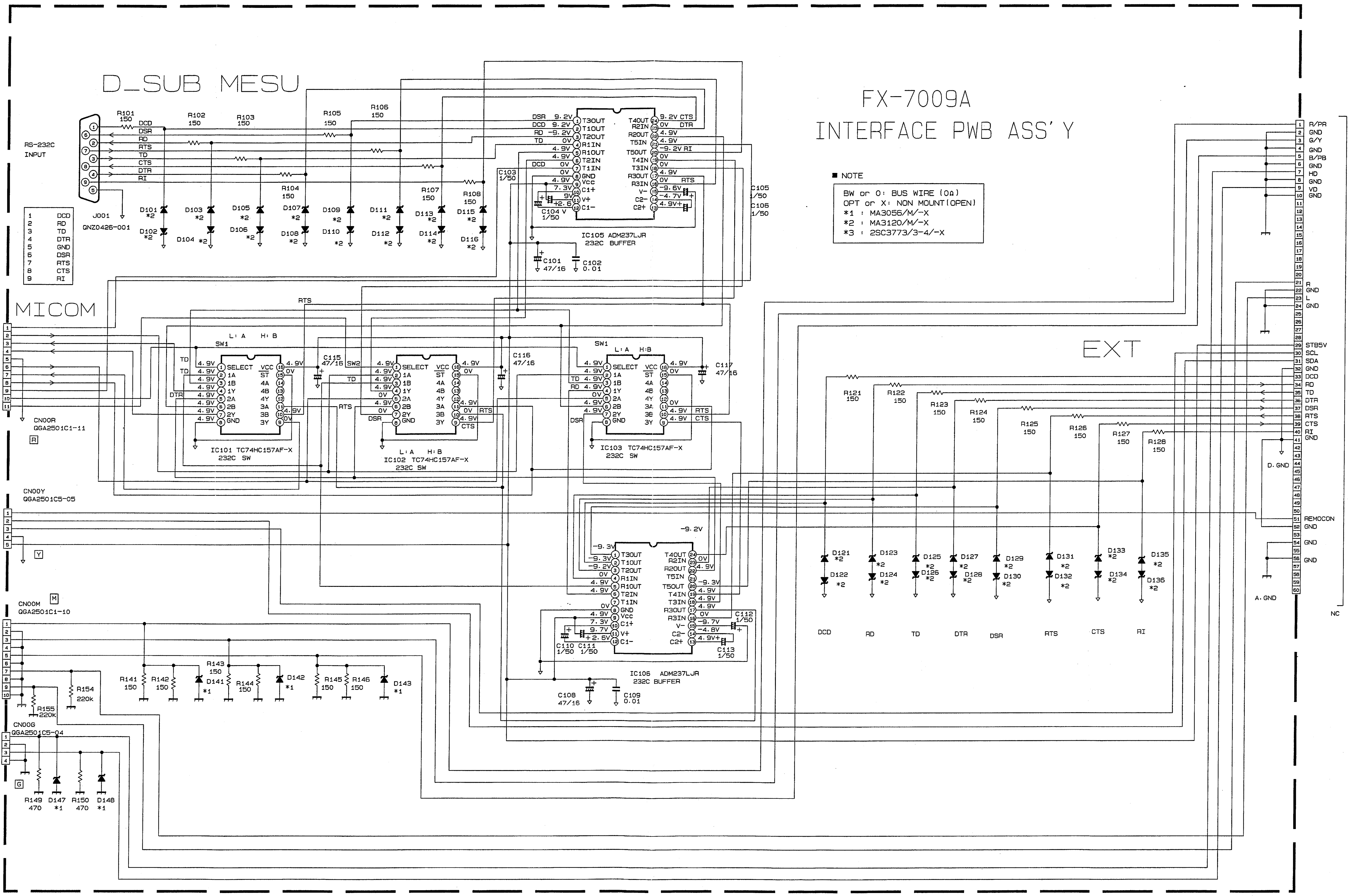
[REMOTE PWB CIRCUIT DIAGRAM]


WIRED_INPUT
WIRED_OUTPUT
IR_REMOCON_OUT
J701 QMS3005-C01
R701 X
FL701 NQR0321-002X
D701 *1
C706 .01
C707 .01
R723 100k
D705 *1
R721 10k
R722 10k
J702 QMS3005-C01
R703 X
FL702 NQR0321-002X
D702 *1
C708 .01
C709 .01
R724 100k
R711 X
Q702 X
Q703 X
C701 X
R725 10k
Q701 X
R712 X
Q704 X
R710 X
R713 X
R714 X
Q705 X
Q706 X
R720 X
J703 X
R705 X
FL703 X
D703 X
C705 X
R716 X
R718 X
R719 X
D704 X
C704 X
D706 X
C702 47/16
C703 47/16
S701 X
A B C D
CN00U QGA2501C1-09
U
1 REM_IN
2 GND
3 REM_OUT
4 GND
5 REMOCON
6 REM_IN_DET
7 WIRED_1ST
8 REM_OUT_DET
9 REM5V
DIGITAL PWB (7/7)
W
CN00W QGA2501C5-04
TO AUDIO PB
1 L_OUT
2 GND
3 GND
4 R_OUT
C803 0.01
R803 X
R804 X
R805 X
D803 *4
D804 *4
TO INT SPEAKER
FR801 QRZ9021-1R8
D805 *4
D806 *4
C801 X
S
CN00S QGA2501C5-04
1 L_OUT
2 L_MINUS
3 R_MINUS
4 R_OUT
TO INT SPEAKER QAS0011-002
D807 *4
FR802 QRZ9021-1R8
C802 X
D809 *4
D808 *4
D810 *4
L806 QQL402K-100
L805 QQL402K-100
J801 CEMT005-002
L801 QQL402K-4R7
EX_SP LOUT
L802 QQL402K-4R7
C805 .01
L803 QQL402K-4R7
EX_SP ROUT
L804 QQL402K-4R7
C806 .01
SP TERMINAL
SPEAKER
TOP
1 2 3
4 5 6
INT EXT
REAR VIEW
L
R
INT
EXT
S801 QSW0838-001
TOP
1 3
R+ L+
R- L-
2 4
REAR VIEW
FX-8014A
REMOTE PWB ASS' Y

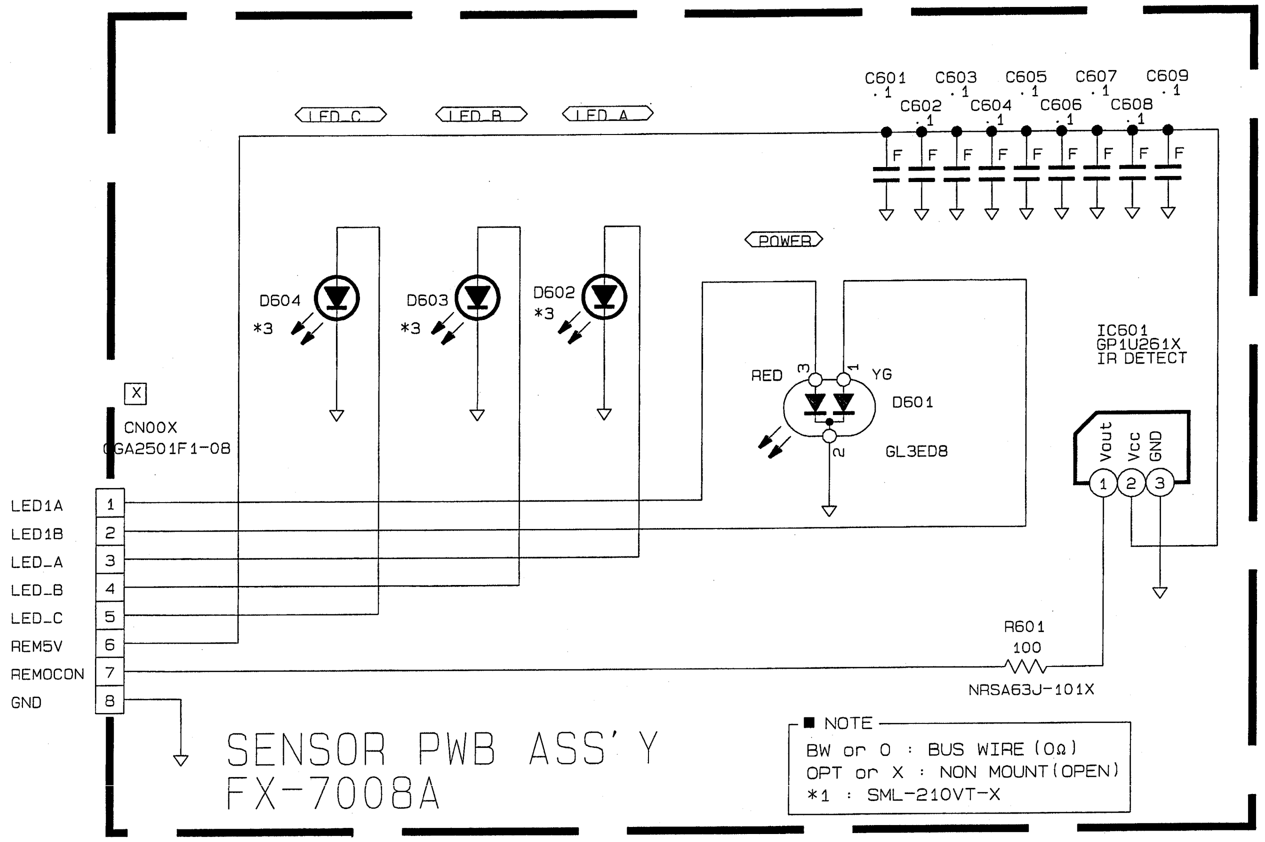
■ NOTE

BW or O: BUS WIRE (0Ω)
OPT or X: NON MOUNT (OPEN)
*1 : MA3056/M/-X
*2 : MA3180/M/-X
*3 : DTC363TK-X
*4 : MA111-X

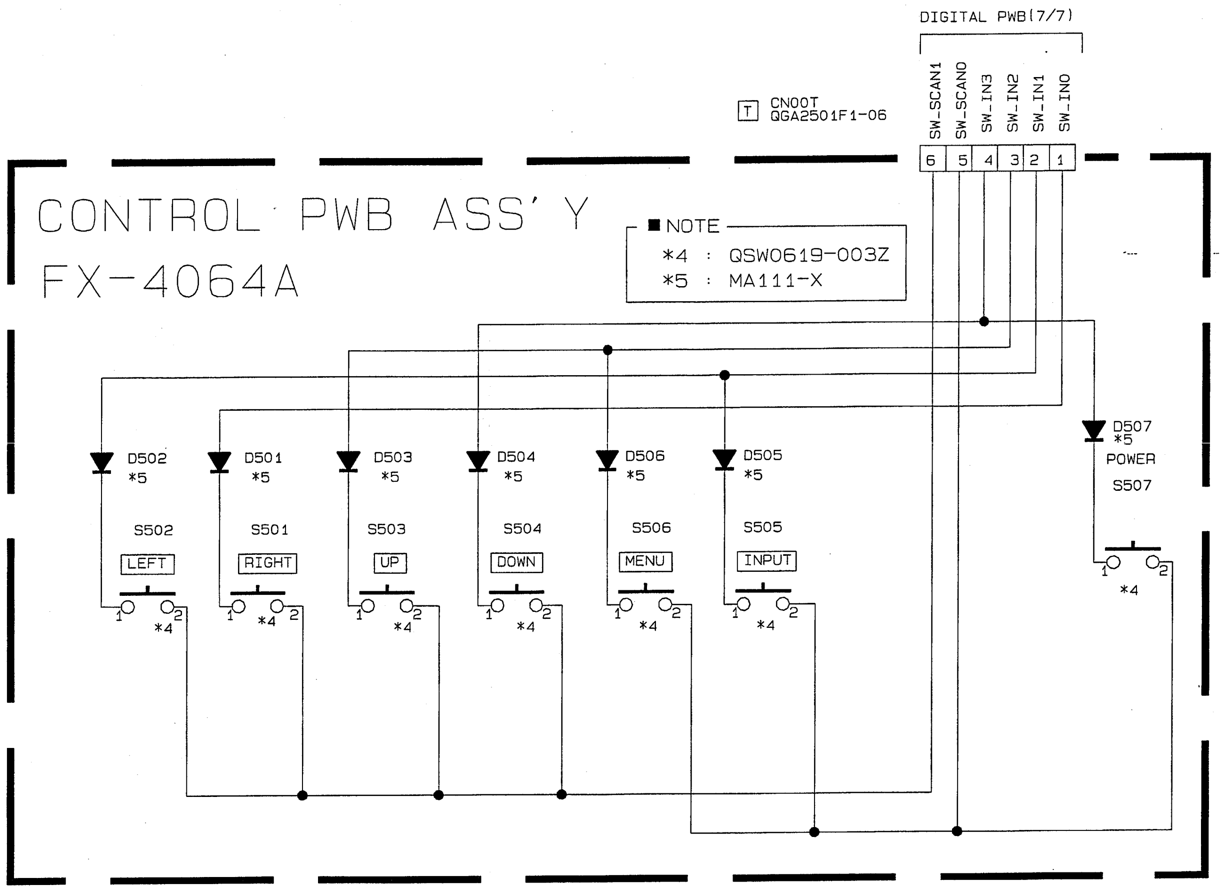
[INTERFACE PWB CIRCUIT DIAGRAM]


D_SUB MESU
FX-7009A
INTERFACE PWB ASS'Y
MICOM
EXT
RS-232C INPUT
J001
GNZ0426-001
1 DCD
2 RD
3 TD
4 DTR
5 GND
6 DSR
7 RTS
8 CTS
9 RI
IC105 ADM237LJR 232C BUFFER
IC106 ADM237LJR 232C BUFFER
IC101 TC74HC157AF-X 232C SW
IC102 TC74HC157AF-X 232C SW
IC103 TC74HC157AF-X 232C SW
L: A H: B
SW1
SW2
CN00R GQA2501C1-11
CN00Y GQA2501C5-05
CN00M GQA2501C1-10
CN00G GQA2501C5-04
CN001 GQB1221J2-60
DIGITAL PWB (7/7)
AV PWB (1/2)
DCD
RD
TD
DTR
GND
DSR
RTS
CTS
RI
RSSW1
RSSW2
REMOCON
SDA2
SCL2
GND
STB5V
EX_R
EX_G
EX_B
EX_AL
EX_AR
EX_HS
EX_VS
R/PR
G/Y
B/PB
HD
VD
R
L
STB5V
SCL
SDA
D. GND
A. GND
NOT USED
NC
■ NOTE
BW or O: BUS WIRE (0Ω)
OPT or X: NON MOUNT (OPEN)
*1 : MA3056/M/-X
*2 : MA3120/M/-X
*3 : 2SC3773/3-4/-X
R101 150
R102 150
R103 150
R104 150
R105 150
R106 150
R107 150
R108 150
R121 150
R122 150
R123 150
R124 150
R125 150
R126 150
R127 150
R128 150
R141 150
R142 150
R143 150
R144 150
R145 150
R146 150
R149 470
R150 470
R154 220k
R155 220k
C101 47/16
C102 0.01
C103 1/50
C104 1/50
C105 1/50
C106 1/50
C108 47/16
C109 0.01
C110 1/50
C111 1/50
C112 1/50
C113 1/50
C115 47/16
C116 47/16
C117 47/16

[SENSOR PWB CIRCUIT DIAGRAM]

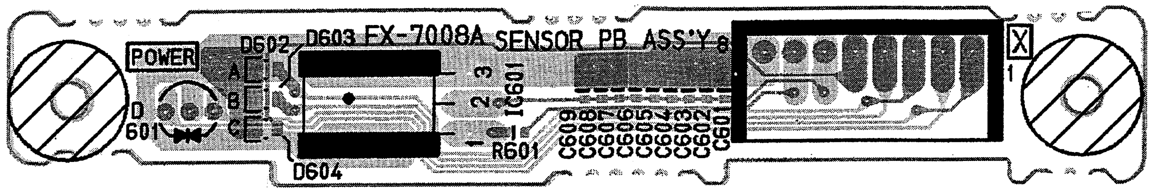

C601 .1
C602 .1
C603 .1
C604 .1
C605 .1
C606 .1
C607 .1
C608 .1
C609 .1
F
LED_C
LED_B
LED_A
POWER
D604 *3
D603 *3
D602 *3
RED
YG
D601
GL3ED8
IC601
GP1U261X
IR DETECT
Vout
Vcc
GND
X
CN00X
QGA2501F1-08
LED1A
LED1B
LED_A
LED_B
LED_C
REM5V
REMOCON
GND
R601
100
NRSA63J-101X
SENSOR PWB ASS'Y
FX-7008A
■ NOTE
BW or O : BUS WIRE (0Ω)
OPT or X : NON MOUNT (OPEN)
*1 : SML-210VT-X

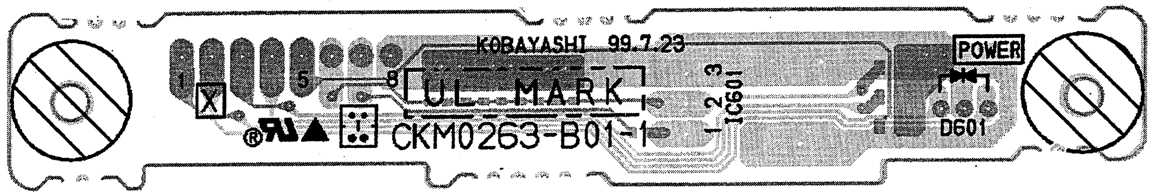
[CONTROL PWB CIRCUIT DIAGRAM]


DIGITAL PWB(7/7)
SW_SCAN1
SW_SCAN0
SW_IN3
SW_IN2
SW_IN1
SW_IN0
T
CN00T
QGA2501F1-06
CONTROL PWB ASS'Y
FX-4064A
■ NOTE
*4 : QSW0619-003Z
*5 : MA111-X
D502 *5
D501 *5
D503 *5
D504 *5
D506 *5
D505 *5
D507 *5
POWER
S507
S502 LEFT
S501 RIGHT
S503 UP
S504 DOWN
S506 MENU
S505 INPUT
*4

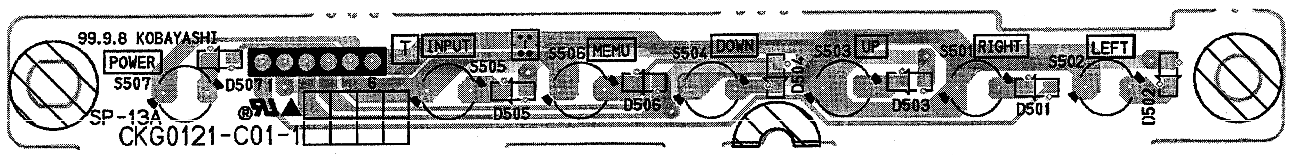
PATTERN DIAGRAMS

[SENSOR PWB PATTERN]

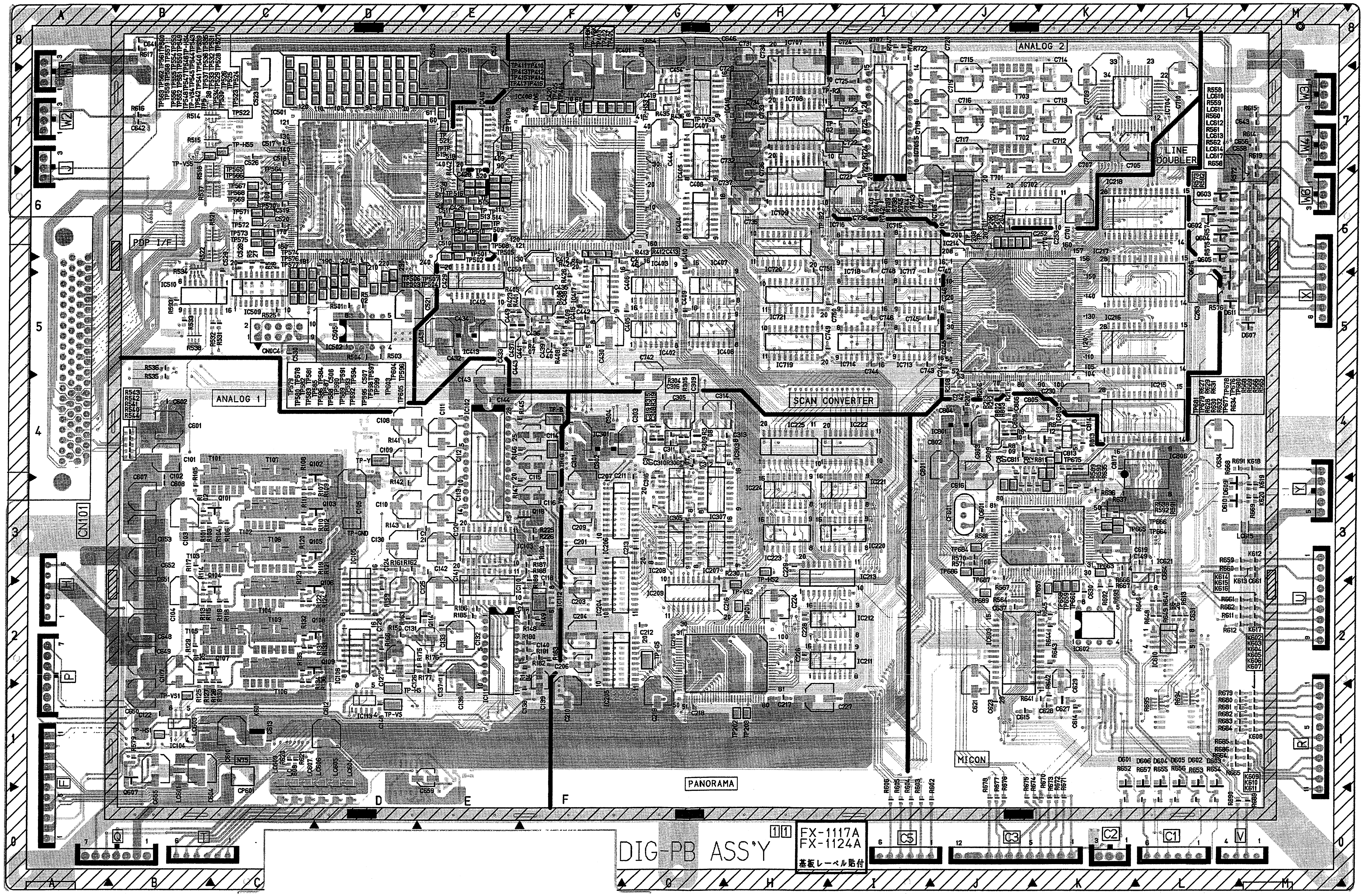

POWER
D602
D603
FX-7008A SENSOR PB ASS'Y
X
D601
D604
IC601
R601
C609
C608
C607
C606
C605
C604
C603
C602
C601


KOBAYASHI 99.7.23
UL MARK
CKM0263-B01-1
IC601
POWER
D601
X

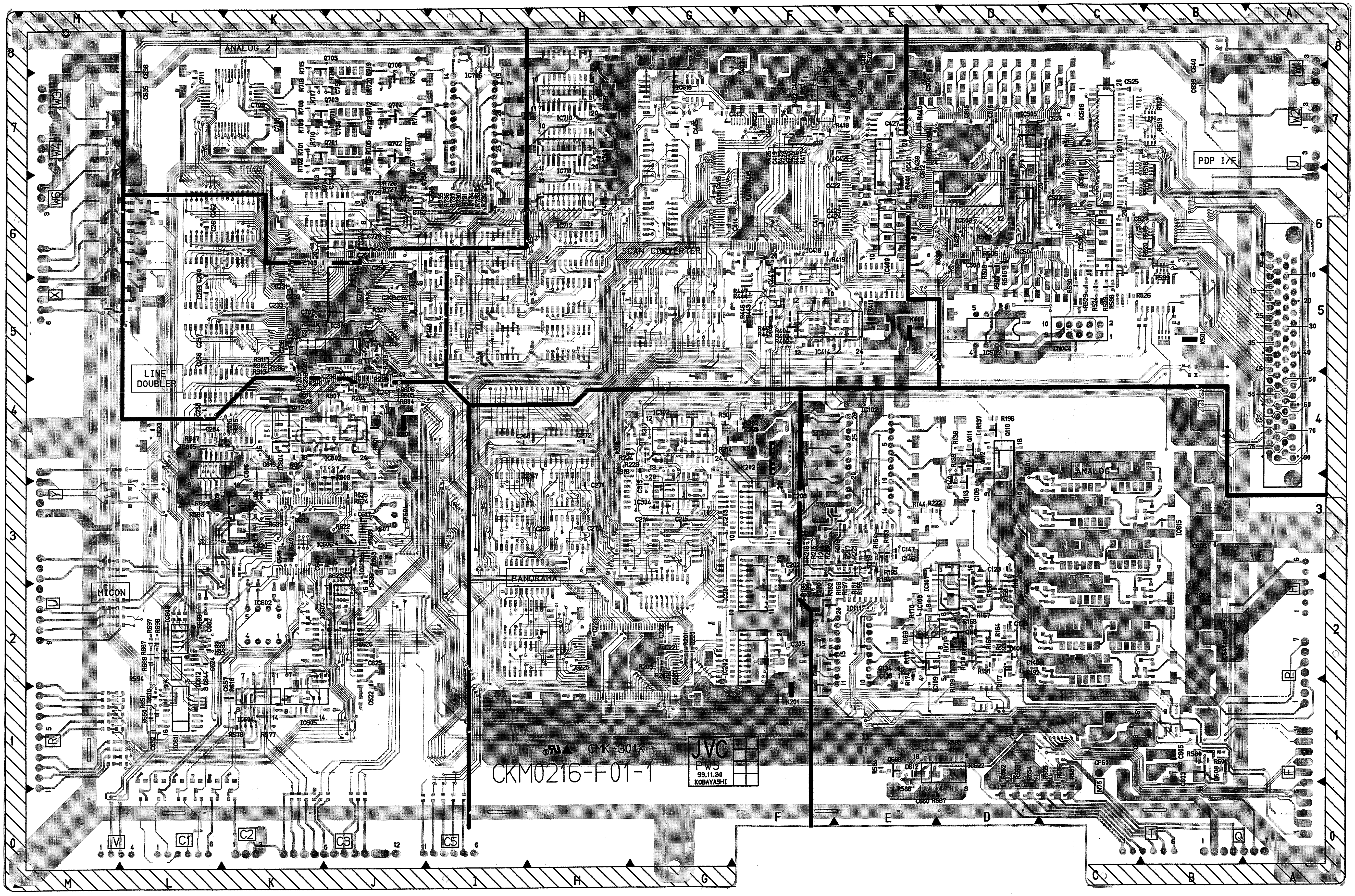
[CONTROL PWB PATTERN]


99.9.8 KOBAYASHI
POWER
S507
SP-13A
CKG0121-C01-1
T
INPUT
S505
S506
MENU
S504
DOWN
S503
UP
S501
RIGHT
S502
LEFT
D507
D505
D506
D504
D503
D501
D502

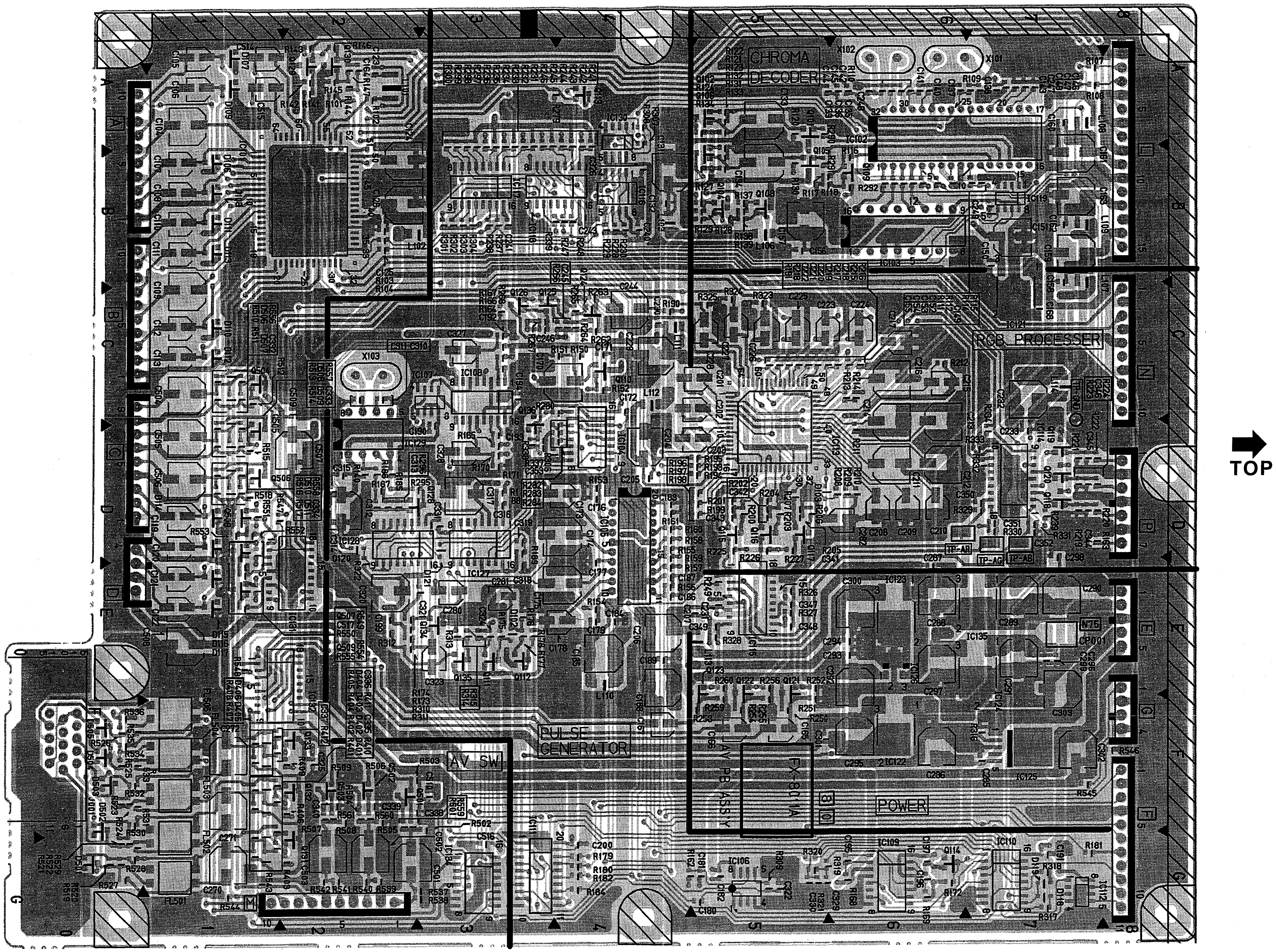
[DIGITAL PWB PATTERN]   (side A)


DIG-PB ASS'Y
FX-1117A
FX-1124A
基板レーベル貼付
ANALOG 1
ANALOG 2
SCAN CONVERTER
LINE DOUBLER
PANORAMA
MICON
PDP I/F
CN101
A
B
C
D
E
F
G
H
I
J
K
L
M
0
1
2
3
4
5
6
7
8
W1
W2
J
W3
W4
W6
X
Y
U
R
H
P
F
Q
T
C5
C3
C2
C1
V

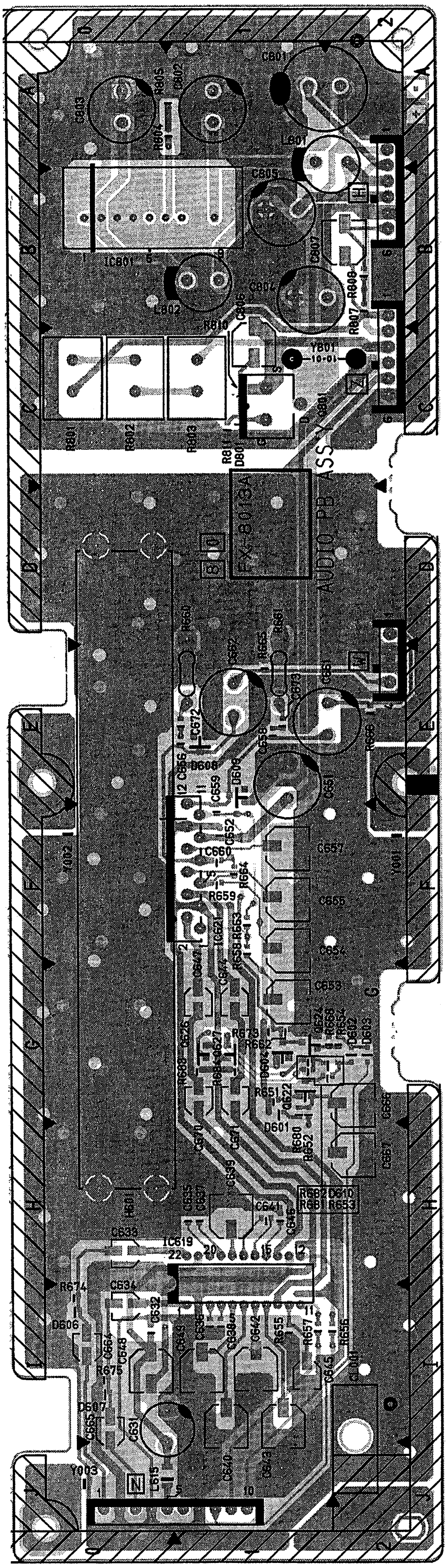
[DIGITAL PWB PATTERN]   (side B)


ANALOG 2
LINE DOUBLER
SCAN CONVERTER
PDP I/F
PANORAMA
MICON
ANALOG
CMK-301X
CKM0216-F01-1
JVC
PWS
99.11.30
KOBAYASHI

[AV PWB PATTERN]

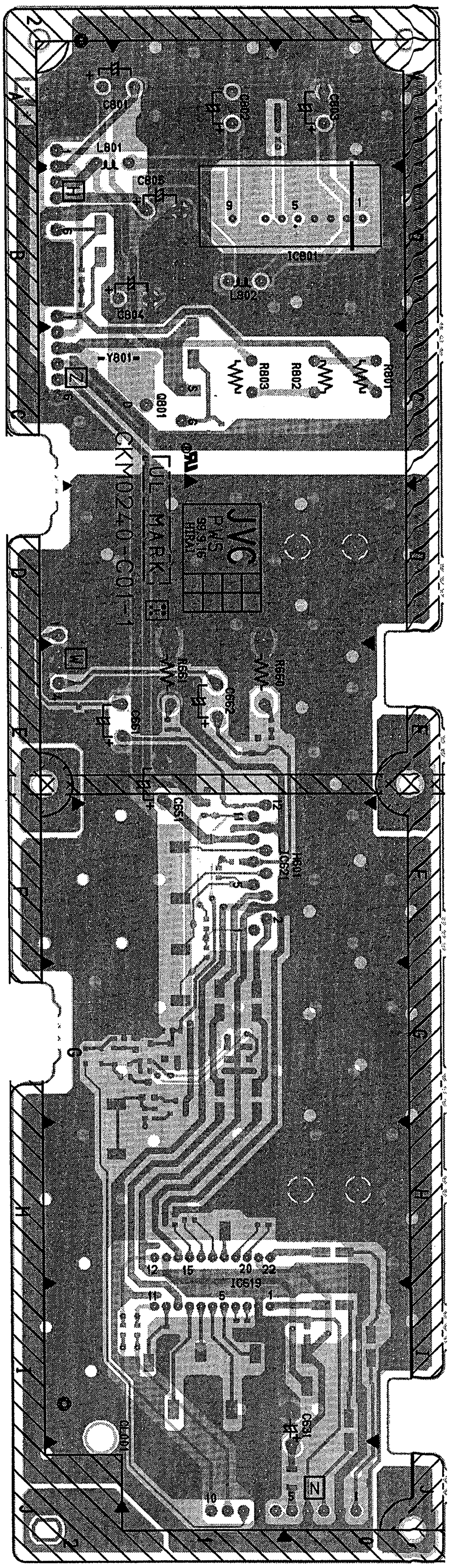

CHROMA
DECODER
RGB PROCESSER
PULSE
GENERATOR
AV SW
AV PB ASSY
FX-801A
POWER
X101
X102
X103
TOP

[AUDIO PWB PATTERN] (side A)

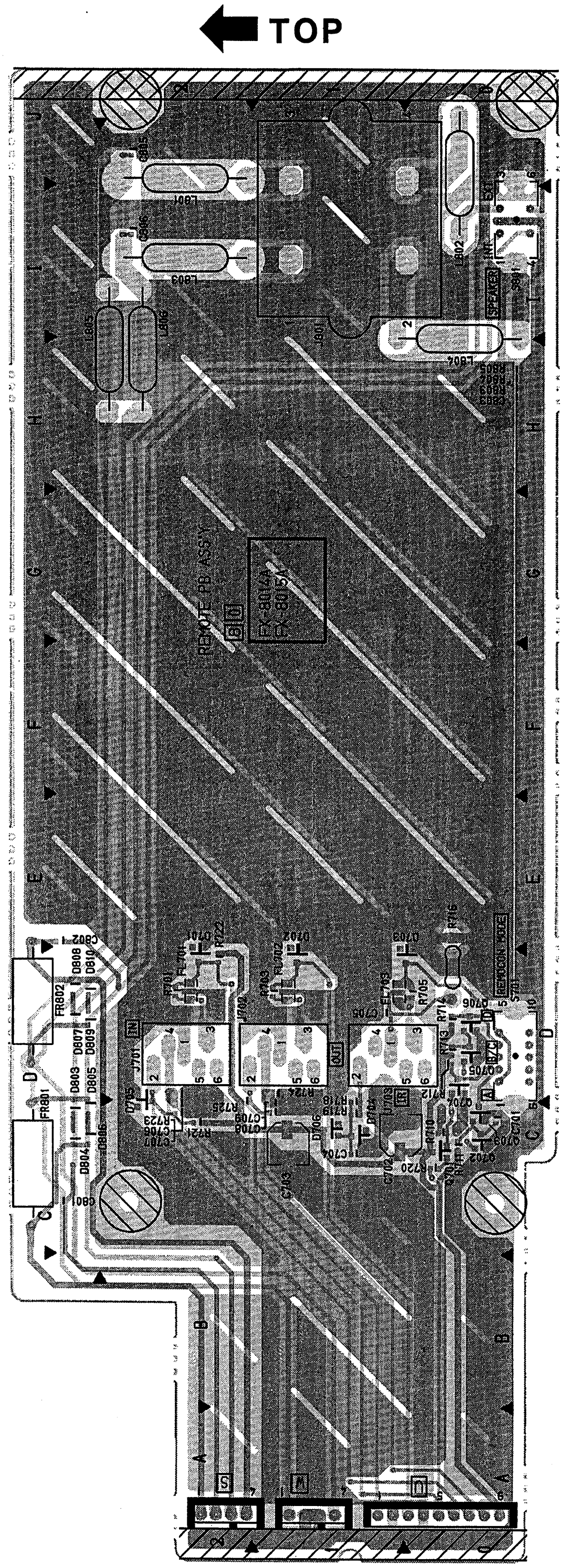

C801
R805
R802
C803
R804
L801
C805
IC801
C807
C804
R808
L802
R810
R807
C806
Y801
Q801
R801
R802
R803
R811
D801
FX-8013A
AUDIO PB ASS'Y
R660
R661
C662
C672
C670
C651
C656
D608
C659
C658
C661
R656
C652
C660
R664
C657
C655
R659
R653
IC652
C654
C653
R651
D601
R680
R652
C667
R682
D610
R681
R653
C641
C646
C633
IC619
22
20
15
11
R674
C634
C632
D606
C664
C648
C639
C642
R655
R657
R656
C645
R675
D507
C631
C629
Y003
L615
C640
C643
10
1
A
B
C
D
E
F
G
H
I
J

TOP

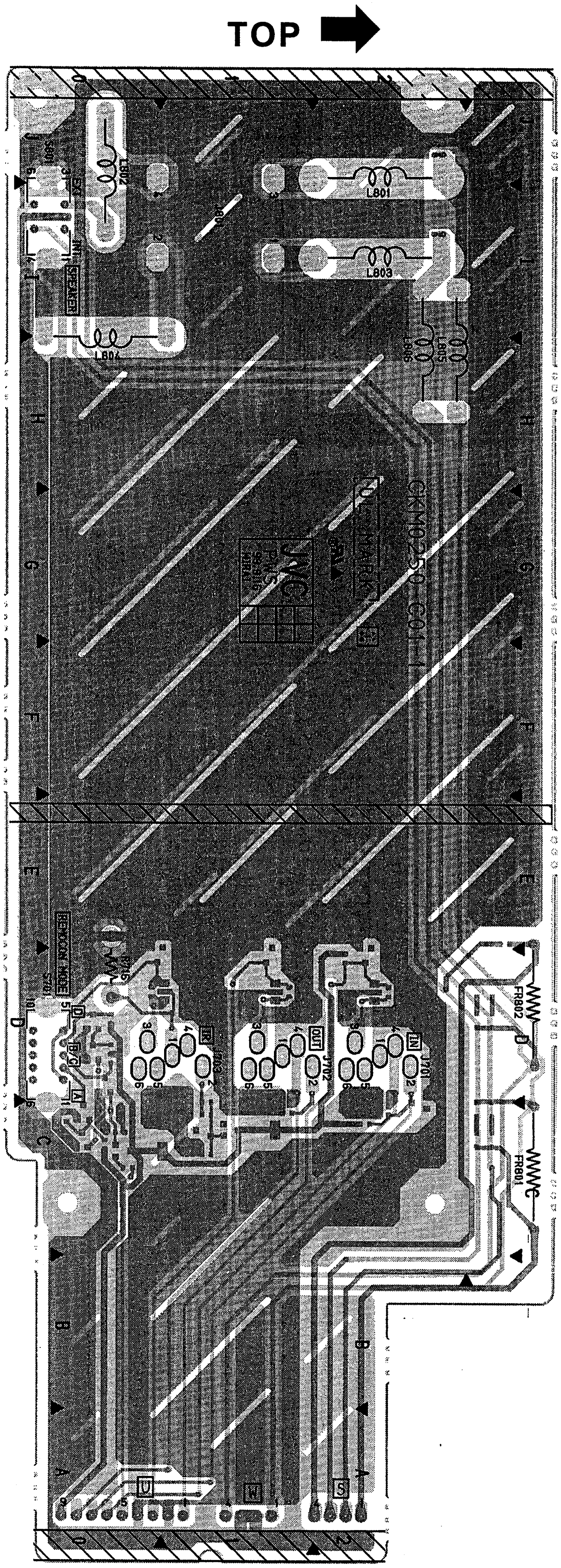
[AUDIO PWB PATTERN] (side B)


C801
L801
C805
C803
C802
IC801
L802
C804
Y801
R803
R802
R801
Q801
CKM0240-C01-1
UL MARK
JVC
PWS
12
15
20
22
11
IC619
10
A
B
C
D
E
F
G
H
I
J

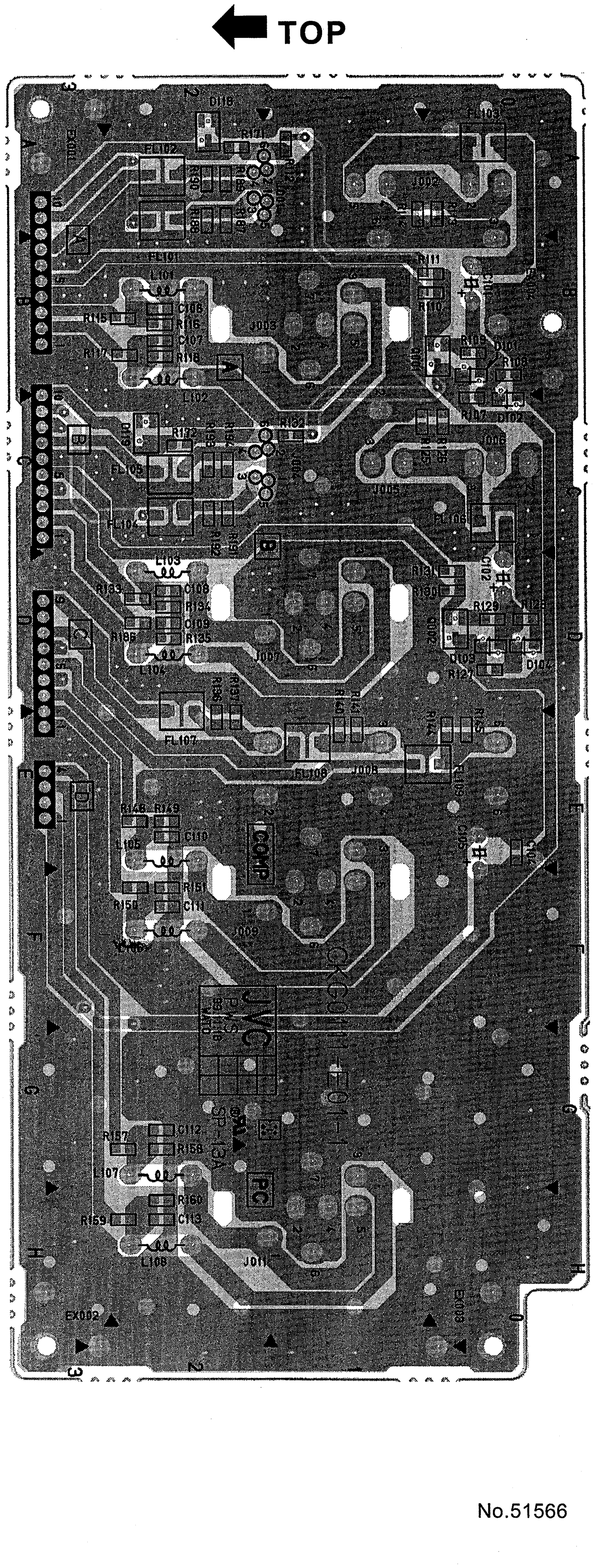
[REMOTE PWB PATTERN] (side A)


TOP
REMOTE PB ASS'Y
EX-8014A
EX-8015A
SPEAKER
REMOCON MODE
L801
L803
L804
L805
L806
J701
J702
J703
S701
FR801
FR802
IN
OUT

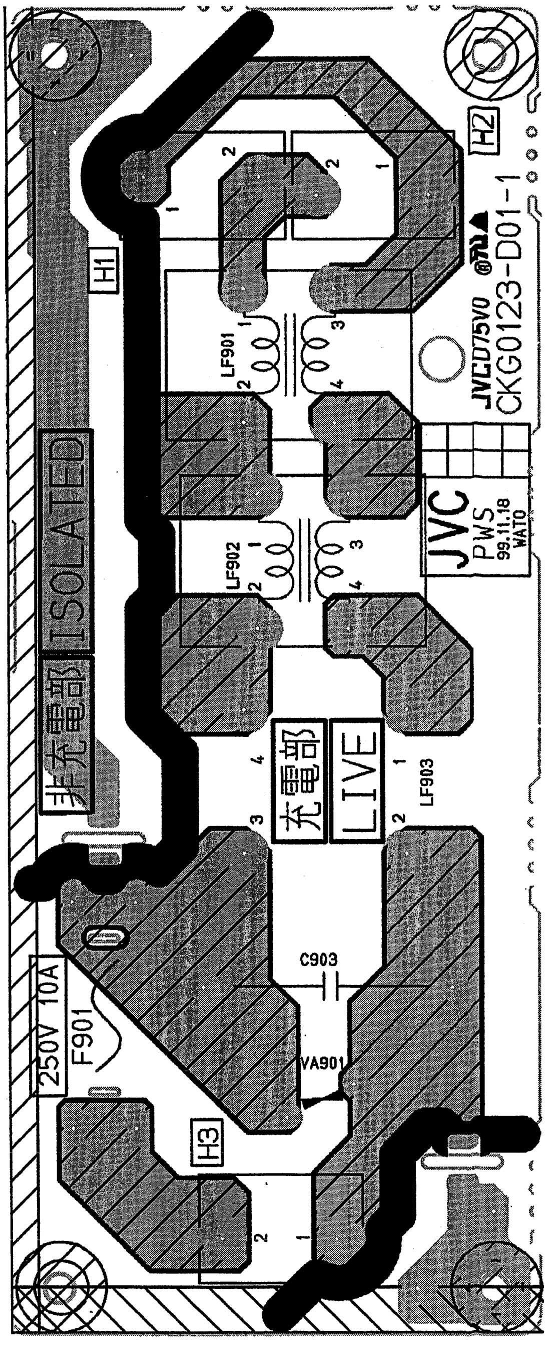
[REMOTE PWB PATTERN] (side B)


TOP
JVC
SPEAKER
REMOCON MODE
L801
L803
L804
L805
L806
J701
J702
J703
FR801
FR802
IN
OUT

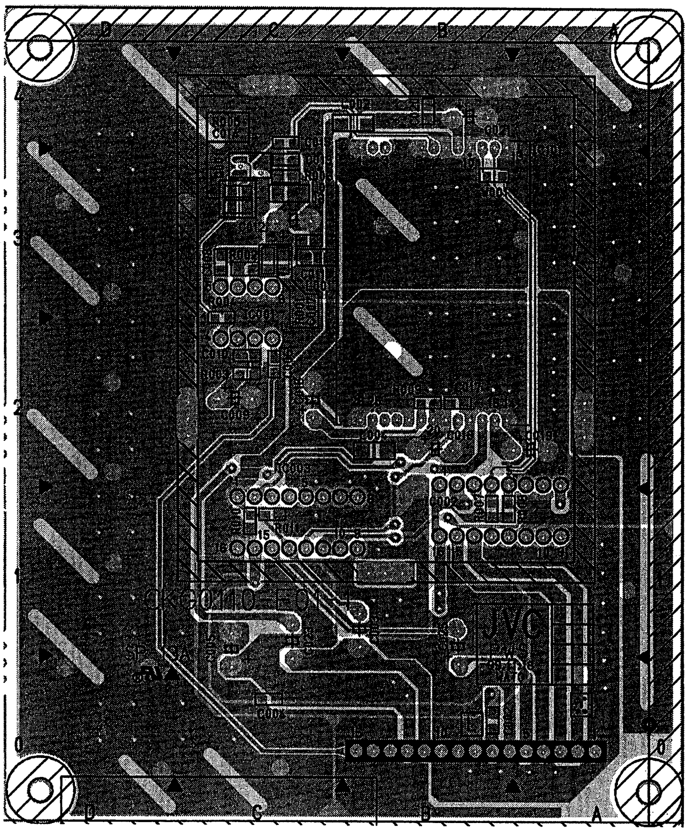
[TERMINAL PWB PATTERN]


TOP
JVC
PWS
COMP
PC
FL101
FL102
FL103
FL104
FL105
FL106
FL107
FL108
J001
J002
J003
J004
J005
J006
J007
J008
J009
J011
L101
L102
L103
L104
L105
L106
L107
L108
C106
C107
C108
C109
C110
C111
C112
C113
D101
D102
D103
D104
D118
D119
EX001
EX002
EX003
A
B
C
D
E
F
G
H

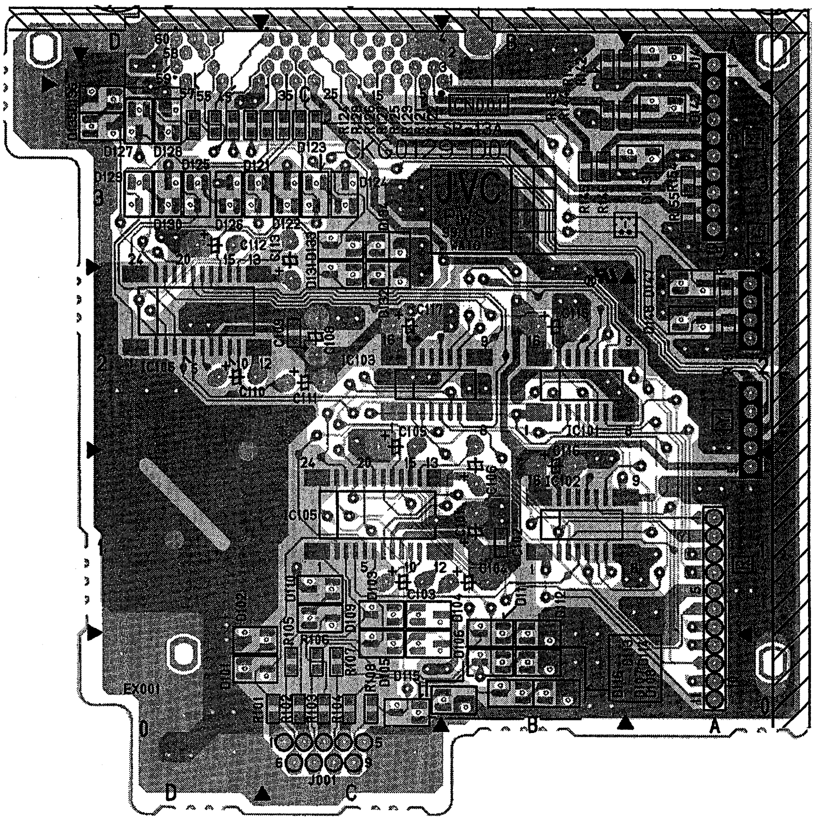
[FILTER PWB PATTERN]


ISOLATED
非充電部
充電部
LIVE
JVC
PWS
99.11.18
WATO
CKG0123-D01-1
H1
H2
H3
LF901
LF902
LF903
C903
VA901
F901
250V 10A

[COMB PWB PATTERN]


A
B
C
D
0
1
2
3
4
JVC

[INTERFACE PWB PATTERN]


A
B
C
D
0
1
2
3
JVC
CN001
J001
EX001
IC101
IC102
IC103
IC105

JVC

SERVICE MANUAL

42" PLASMA DISPLAY MONITOR

BASIC CHASSIS
P1

GD-V4200PZW/A
GD-V4200PZW-G/A

Supplementary

The following item for the GD-V4200PZW/A, GD-V4200PZW-G/A model were changed partly from GD-V4200PZW, GD-V4200PZW-G model. Therefore, this service manual describes only the items which differ from those of the GD-V4200PZW,GD-V4200PZW-G service manual.
For details other than those described in this manual, please refer to the GD-V4200PZW, GD-V4200PZW-G model service manual (No.51566, Sep. 1999) ,Supplementary (No.51566B, Sep. 2000) & Revised (No.51566C, Nov. 2000).

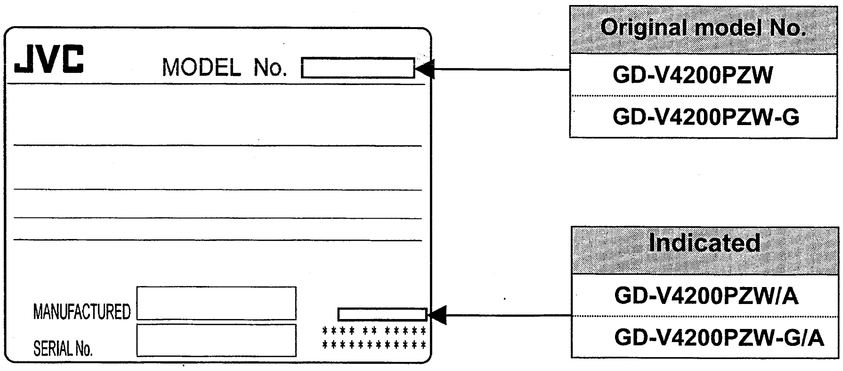
■ OUTLINE

DIFFERENCE FROM GD-V4200PZW / GD-V4200PZW-G

1) Change in PDP (panel)
2) Addition of a new function responding to the display for vertical writing = VENTILATION MODE (within SET-UP MENU)
3) Change in APS (Auto Power Save) circuit → Change in DIGITAL PWB
4) Change in part of body color (rear cover) = dark gray

■ HOW TO IDENTIFY MODELS

Model No.GD-V4200PZW or GD-V4200PZW-G is indicated on the Rating Label.


JVC
MODEL No.
MANUFACTURED
SERIAL No.
****
Original model No.
GD-V4200PZW
GD-V4200PZW-G
Indicated
GD-V4200PZW/A
GD-V4200PZW-G/A

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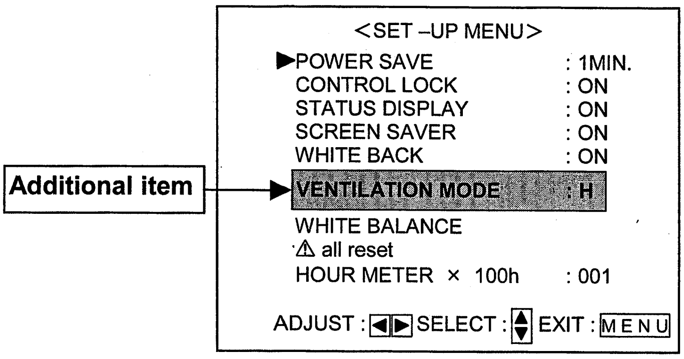
No.51566D
Aug. 2002

■ SPECIFIC SERVICE INSTRUCTIONS (SET-UP MENU)

The VENTILATION MODE has been added in the Set-up Menu.
The VENTILATION MODE is a function that runs up the rotational frequency of the cooling fan to increase the cooling efficiency when the PDP MONITOR is installed vertically.



<SET –UP MENU>
▶POWER SAVE : 1MIN.
CONTROL LOCK : ON
STATUS DISPLAY : ON
SCREEN SAVER : ON
WHITE BACK : ON
▶VENTILATION MODE : H
WHITE BALANCE
⚠ all reset
HOUR METER × 100h : 001

Fig.1

Setting of VENTILATION MODE

1. While pressing the VOLUME key of the remote controller unit, press the MENU/EXIT button to display the SET-UP MENU (Fig.1).
2. Select VENTILATION MODE with the cursor ▲ / ▼ key.
3. By pressing the cursor ◀ / ▶ key, Set the installation type - either V (vertical installation) or H(horizontal installation).
4. By pressing the MENU/EXIT button twice, exit from the SET-UP MENU.

■ DIFFERENT PARTS LIST

USING P.W. BOARD [P2-2/3-2]

MODEL / PWB ASS'Y	GD-V4200PZW GD-V4200PZW-G	GD-V4200PZW/A GD-V4200PZW-G/A
DIGITAL P.W.B	FX-1117A	FX-1131A

DIGITAL P.W. BOARD ASS'Y (FX-1131A) [P2-29~32/3-10]

⚠	Symbol No.	PARTS No.		PARTS NAME	DESCRIPTION
		GD-V4200PZW GD-V4200PZW-G	GD-V4200PZW/A GD-V4200PZW-G/A		
	IC1502	EPC1PC8-GDV4200	EPC1PC8-4200PCE	I.C.	SERVICE
	IC1601	MB90F553APF-P99	MB90F553APF-P9A	I.C.	SERVICE
	IC1602	AT24C32-GDV4200	AT24C32-4200PCE	I.C.	SERVICE

EXPLODED VIEW PARTS LIST [P3-3]

⚠	Ref. No.	PARTS No.		PARTS NAME	DESCRIPTION
		GD-V4200PZW GD-V4200PZW-G	GD-V4200PZW/A GD-V4200PZW-G/A		
⚠	2	QLE0004-001	QLE0004-003	PDP (PANEL)	
	12	LC10675-001A	LC10675-002B	REAR COVER	body color=dark gray
⚠	14	LC20453-001C	LC20453-003A	ROLL R LABEL	GD-V4200PZW/A
⚠	14	LC20453-002C	LC20453-004A	ROLL R LABEL	GD-V4200PZW-G/A
	39	FX-1117A	FX-1131A	DIGITAL PWB ASSY	

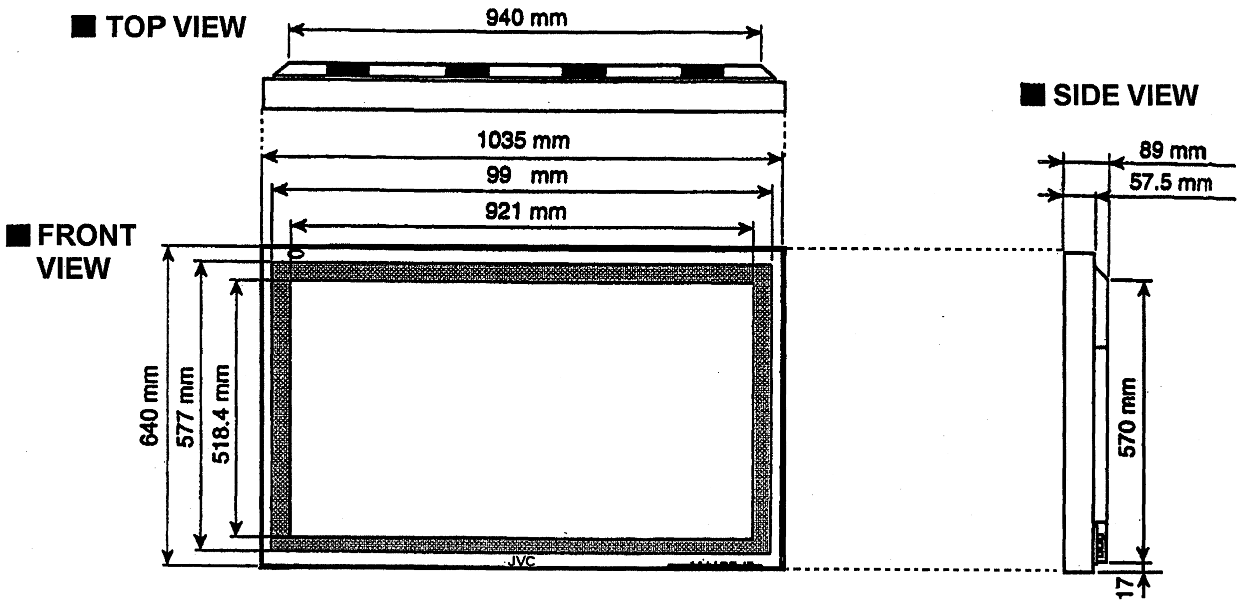
PACKING PARTS LIST [P3-16]

⚠	Ref. No.	PARTS No.		PARTS NAME	DESCRIPTION
		GD-V4200PZW GD-V4200PZW-G	GD-V4200PZW/A GD-V4200PZW-G/A		
⚠	15	LCT0318-001B	LCT0783-001A	INST BOOK	

JVC
VICTOR COMPANY OF JAPAN, LIMITED
HOME AV NETWORK BUSINESS UNIT 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama, Kanagawa-prefecture, 221-8528, Japan

Printed in Japan
0208 WPC

DIMENSION


■ TOP VIEW
940 mm
■ SIDE VIEW
1035 mm
99 mm
921 mm
89 mm
57.5 mm
■ FRONT VIEW
640 mm
577 mm
518.4 mm
570 mm
JVC
17

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Printed by: Schaltungsdienst Lange, Berlin (GERMANY)